INDEX TABLE

OCTOBER 30, 1964
Volume 12 Number 8

Sci

TECHNICAL TRANSLATIONS

DEPOSITORY
NOV 13 1964
Los Angeles Public Library

U.S. DEPARTMENT OF COMMERCE
OFFICE OF TECHNICAL SERVICES
WASHINGTON, D.C. 20230

TECHNICAL TRANSLATIONS

U.S. DEPARTMENT OF COMMERCE
Luther H. Hodges, *Secretary*

OFFICE OF TECHNICAL SERVICES
Donald A. Schon, *Director*

Issued twice a month. Annual subscription $12 ($4 additional for foreign mailing). Single copy 60 cents. Make remittance payable to Superintendent of Documents and mail either to a Department of Commerce field office or to Superintendent of Documents, U. S. Government Printing Office, Washington, D.C. 20402. Address changes should be sent to Superintendent of Documents.

Contents may be reprinted freely. Mention of source will be appreciated.

Use of funds for printing this publication approved by the Director of the Bureau of the Budget, November 22, 1961

TECHNICAL TRANSLATIONS is published in cooperation with the Special Libraries Association Translations Center to list translated technical literature available from the Office of Technical Services, the Library of Congress, the Special Libraries Association, European Translations Center, other cooperating foreign governments, commercial translators, publishers, universities, and other sources.

The Special Libraries Association is responsible for collecting translations from non-Government sources, both domestic and foreign; the Office of Technical Services for collecting translations from both U.S. and foreign government sources since 1940.

The material available from the Office of Technical Services generally has been translated by other agencies of the Government and by private organizations and turned over to OTS for reproduction and distribution. OTS assumes no responsibility for the accuracy of the translations.

OTS provides reference service for the location and identification of translated materials, both completed translations and translations in process.

CONTENTS

	Page
NOTICES	III
HOW TO ORDER TRANSLATIONS	v
BIBLIOGRAPHY	601
AGRICULTURE	601
Animal Husbandry	603
Plant Cultivation	603
ASTRONOMY	604
Astrophysics	604
BEHAVIORAL SCIENCES	605
Personnel and Training	605
Psychology	605
BIOLOGICAL SCIENCES	606
Anatomy and Physiology	607
Biochemistry	608
Botany	610
Medical Specialties and Equipment	611
Microbiology	611
Neurology and Psychiatry	612
Pathology	612
Pharmacology and Toxicology	615
Radiobiology	617
Surgery	617
Zoology	617
CHEMISTRY	618
Analytical Chemistry	619
Inorganic Chemistry	620
Organic Chemistry	621
Physical Chemistry	627
EARTH SCIENCES	630
Climatology and Meteorology	631
Frost Science	632
Geology	632
Mineralogy	635
Oceanography	636
Physics of the Atmosphere	637
Seismology	637
ENGINEERING	637
Aeronautical Engineering	638
Chemical Engineering	638
Civil Engineering	641
Electrical and Electronic Engineering	641
Mechanical Engineering	643
Ordnance, Missiles, and Satellite Vehicles	643
Ship Building	644
FOOD, HANDLING, AND PACKAGING EQUIPMENT	644
MACHINERY, FABRICATION, AND ACCESSORY EQUIPMENT	645
Engines and Propulsion Systems	646
Machine Parts and Mechanisms	646
Transport, Traction and Hoist Facilities	647
MATERIALS	648
Adhesives and Sealants	650
Ceramics and Refractories	651
Fuels, Lubricants, and Hydraulic Fluids	651
Leather and Textiles	651
Paints and Finishes	653
Photographic Materials	653
Plastics	655
Rubber and Elastomers	658
Wood and Paper	658
MATHEMATICS	659
Computing Devices	660
MECHANICS	661
Aerodynamics and Pneumatics	662
Hydrodynamics, Hydraulics and Hydrostatics	662

	Page
METALLURGY	662
Ferrous Metals	665
Nonferrous (except light) Metals	666
Structural Metallurgy and Corrosion	667
NUCLEAR PHYSICS AND NUCLEAR CHEMISTRY	667
Elementary Particles	669
Nuclear Engineering and Power	669
Nuclear Reactions	670
Radioactivity	671
PHYSICS	671
Electricity and Magnetism	672
Electronics	672
Molecular Physics and Spectroscopy	673
Optics	674
Solid State Physics	674
Thermodynamics	676
RESEARCH METHODS, TECHNIQUES AND EQUIPMENT	676
Photographic Equipment	678
SOCIAL SCIENCES	678
Documentation	682
BOOK REVIEWS	No entries
TRANSLATIONS IN PROCESS	B-7
PERIODICALS TRANSLATED COVER-TO-COVER	C-283
Tables of Contents	C-284
AUTHOR INDEX	I-1
JOURNAL INDEX	I-5
NUMBER INDEX	I-13

NOTICES TO SUBSCRIBERS

New OTS Pricing

A new OTS standard pricing schedule has been adopted. The new prices, which became effective with the October 15, 1964 issue, apply only to translations acquired and sold by the Office of Technical Services and in general are 1/3 lower than the average previous process. Prices for documents acquired and sold by other sources are not affected.

OTS has changed also its system of microphotography from microfilm to microfiche (a unitized sheet form of microphotography). Most Government agencies are converting because microfiche has many advantages over microfilm. It can be produced faster and at less cost, disseminated rapidly, filed and stored easily.

OTS will use the International Standard size of microfiche sheet of 105 mm. x 148 mm. (approximately 4" x 6"). Image size will be generally an 18:1 reduction.

Beginning with the October 15, 1964 issue, documents available from OTS list a hard copy price (indicated by the letters "HC") and when microfiche is available, a microfiche price (indicated by the letters "MF") is also given. The prices given reflect the new pricing schedule where appropriate.

Special Literature Searching Fee Increased

Effective October 1, 1964, the fee for Special Literature Searches by the Office of Technical Services and the Science and Technology Division, Library of Congress, was increased from $8 per hour to $11 per hour of searching time. The increase is necessary to permit the agencies to recover the actual costs of these searches.

The Special Literature Searching Service is a subscription-type service to provide subscribers with bibliographic information tailored to their specifications. For information on this service, write to OTS, U. S. Department of Commerce, Washington, D. C., 20230.

SPECIAL ANNOUNCEMENT

The report series USSR Scientific Abstracts and East European Scientific Abstracts, published by the Joint Publications Research Service, have been expanded to include abstracts formerly published by Office of Technical Services under the title Current Review of the Soviet Technical Press, which has been discontinued with the 9 October 1964 issue.

Published under nine subseries -- Bio-Medical Sciences, Chemistry, Cybernetics, Computers and Automation Technology, Earth Sciences (East Europe only), Electronics and Electrical Engineering, Engineering and Equipment, Metals and Metallurgy, and Physics and Mathematics -- the enlarged Scientific Abstracts reports will provide a finer breakdown of information in specific fields of interest for users. Any or all of the subseries in either the USSR or East European areas can be ordered. In addition, one report series entitled Communist Chinese Scientific Abstracts, is also offered, containing translations of selected abstracts of Chinese works published in the Soviet Referativnyy Zhurnal (Abstracts Journal) series.

Pertinent abstracts on geophysics, astronomy and space are published in the semimonthly serial Soviet-Bloc Research on Geophysics, Astronomy and Space.

For information on ordering any of the above publications, write to ...

Clearinghouse for Federal Scientific and Technical Information
Joint Publications Research Service
Building Tempo E
Adams Drive, 4th and 6th Streets, S. W.
Washington, D. C., 20443

HOW TO ORDER TRANSLATIONS

The translations reported in this issue are arranged under the categories indicated in the Contents. The sub-groups of the categories are flexible and used only when there are several translations in a particular sub-group. When the subject of a sub-group is not included in the Contents, reference should be made to the general category into which it falls.

References to sources of original text are given as they appear on the translation, with sufficient editing to assure uniformity in citations.

Some of the translation notes for individual translations have been marked with the symbol (#) preceding the name of the journal. This symbol indicates that the particular journal is also translated cover-to-cover.

Listed below are agencies from which translations may be purchased. Each entry in the Technical Translations indicates by symbol the agency from which the translation should be ordered, the cost of the translation (if known), and the number by which the translation may be ordered, if such a number exists. Make check or money order payable to the agency indicated.

SYMBOLS FOR SOURCES OF TRANSLATIONS

AC
A. Capelo
P. O. Box 46354
Hollywood,
California 90046

AGI
AGI Translations Office
American Geological Institute
1444 N Street, N. W.
Washington, D.C. 20005

AGS
American Geographical Society
Broadway at 156th Street
New York, New York 10032

AGU
American Geophysical Union
Suite 506, 1145-19th Street, N. W.
Washington, D.C. 20036

AIAA
American Institute of Aeronautics and Astronautics
500 Fifth Avenue
New York, New York 10036

AIBS
American Institute of Biological Sciences
2000 P Street, N.W.
Washington, D.C. 20006

AIP
American Institute of Physics
335 East 45th Street
New York, New York 10017

AIS
Argus Information Service
624 N. Eutaw Street
Baltimore, Maryland 21201

AM
Acta Metallurgica
122 East 55th Street
New York, New York 10022

AMS
American Mathematical Society
190 Hope Street
Providence, Rhode Island 02906

ANSP
Academy of Natural Sciences of Philadelphia
19th St. and the Parkway
Philadelphia, Pennsylvania 19103

API
Academic Press, Inc.
111 Fifth Ave.,
New York, New York 10003

ARS
American Rocket Society, Inc.
20th and Northampton Streets
Easton, Pennsylvania 18042

ATS
Associated Technical Services, Inc.
P. O. Box 271
East Orange, New Jersey 07017

BGIRA
British Glass Industry Research Association
Northumberland Road
Sheffield 10, England

BIHR
Circulation Manager
Translations of the Beltone Institute for Hearing Research
2900 West 36th Street
Chicago, Illinois 60632

BISI
British Iron & Steel Industry Translation Service
The Iron and Steel Institute
4, Grosvenor Gardens
London, S.W. 1, England

BWRA
British Welding Research Association
Abington Hall, Abington
Cambridge, England

CB
Consultants Bureau Enterprises Inc.
227 West 17th Street
New York, New York 10011

CCT
Consultants Custom Translations Inc.
227 West 17th Street
New York, New York 10011

CHP
Cleaver-Hume Press, Ltd.
31, Wright's Lane
London, W. 8, England

CID
Centro de Informacion y Documentacion
Patronato Juan de la Cierva,
Serrano 150, Apartado 743,
Madrid 6, Spain

CIDNT
Centralny Instytut Dokumentacji Naukowo-Technicznej
Warszawa 12
Aleja Niepodleglosci 188
Poland

CNP
Comitato Nazionale per la Produttivita
Service d'Information
Viale Regina Margherita N. 83D
Rome, Italy

CNRS
Centre National de la Recherche Scientifique
Centre de Documentation
15 Quai Anatole France
Paris 7, France

CSIRO
Commonwealth Scientific and Industrial Research Organization
Information Service
314 Albert Street
East Melbourne C. 2, Victoria
Australia

CTRA
The Librarian
The Coal Tar Research Association
Oxford Road
Gomersal, Leeds, England

CTS (Chem)
Chemical Translating Service
2243 Greer Road
Palo Alto, California 94300

CTT
Columbia Technical Translations
5 Vermont Avenue
White Plains, New York 10600

DI
Circulation Unit
Department of the Interior
Central Library
Room 1149
Washington, D.C. 20240

DTC
Danish Translations Centre,
c/o Library of the Danish Atomic Energy Commission,
Riso. Roskilde, Denmark

EIS
Engineering Information Services
Kirkham, Preston, Lancashire,
England

ES
Erica Stux
584 Moreley Avenue
Akron, Ohio 44320

ETC
European Translations Centre
Coelenstraat 101, Delft,
The Netherlands

FASEB
Federation of American Societies for Experimental Biology
9650 Wisconsin Avenue
Washington, D.C. 20014

FRI
Fulmer Research Institute, Ltd.
Stoke Poges,
Buckinghamshire,
England

FT
Faraday Translations
15 Park Row
New York, New York 10038

GB
Gordon and Breach
Publishers, Inc.
150 Fifth Avenue
New York, New York 10011

GPO
Superintendent of Documents
Government Printing Office
Washington, D.C. 20402

GPRC
Geophysical & Polar Research Center
6021 S. Highland Road
Madison, Wisconsin 53706

HB
Henry Brutcher
P.O. Box 157
Altadena, California 91001

HMSO
Her Majesty's Stationery Office
P. O. Box 569
London, S.E. 1, England

HTCBN
Hungarian Trading Company for Books and Newspapers "Kultura"
Budapest 62, P.O. Box 149

ICE
International Chemical Engineering
345 East 47th Street
New York, New York 10017

IEEE
Institute of Electrical & Electronics Engineers
275 Madison Avenue
New York, New York 10016

INFOSERV
Infoserv
P. O. Box 217
West Hartford, Conn. 06097

INT
International Patent Service N.V.
P. O. Box 101
's-Hertogenbosch,
The Netherlands

IP
Interscience Publishers, Inc.
250 Fifth Avenue
New York, New York 10001

IPST
Israel Program for Scientific Translation
Kiryat Moshe
P.O. Box 7145
Jerusalem, Israel

ISA
Instrument Society of America
530 William Penn Place
Pittsburgh, Pennsylvania 15219

K-H
Kresge-Hooker Science Library Associates
Wayne State University
Detroit, Michigan 48202

LAND-AIR
Land-Air. Inc.
Pacific Missile Range
Point Mugu, California 95468

LC
Photoduplication Service
Publication Board Project
Library of Congress
Washington, D.C. 20540

LSA
Literature Service Associates
Route 1
Bound Brook, New Jersey 08805

MACL
Maclaren and Sons, Ltd.
Maclaren House
131 Great Suffolk Street
London, S.E. 1, England

MACM
Macmillan Co.
60 Fifth Avenue
New York, New York 10011

MDF
Morris D. Friedman
7553 Waterford Drive
San Jose, California 95129

MT
M. de O. Tollemache
Pennyford Cottage,
Burrington,
Umberleigh, Devon, England

MUL
Mulholland Engineering Translations
26 Burton Woods Lane
Cincinnati, Ohio 45229

NASA
National Aeronautics and Space Administration
1520 H Street, N.W.
Washington, D.C. 20546

NRCC
National Research Council
Library
Ottawa 2, Canada

OB
Oliver & Boyd, Ltd.
Tweeddale Court
14 High Street
Edinburgh 1, Scotland

OSA
Optical Society of America, Inc.
33 University Road
Cambridge, Massachusetts 02138

OTS
Office of Technical Services
Department of Commerce
Washington, D.C. 20230
(Also available through
Department of Commerce
Field Offices)

PERA
The Information Manager
Production Engineering Research Association
Melton Mowbray
Leicestershire, England

PLP
Plenum Press, Inc.
227 West 17th Street
New York, New York 10011

PP
Pergamon Press
122 East 55th Street
New York, New York 10022

PS
Primary Sources
11 Bleecker Street
New York, New York 10012

RIA
Research International Associates
1522 Connecticut Avenue, N.W.
Washington, D.C. 20006

RIS
Research Information Service
Div. of Maxwell Scientific International, Inc.
122 East 55th Street
New York, New York 10022

RIS
Research Information Service
Div. of Pergamon International Corp.
122 East 55th Street
New York, New York 10022

SA
Seizaburo Aoki
Japanese Language Translation Service
15/2027 Chogo
Fujisawa, Japan

SIAM
Business Manager
SIAM Publications
Box 7541
Philadelphia, Pennsylvania 19100

SIC
Scientific Information Consultants Limited
661 Finchley Road
London N. W. 2, England

SLA
SLA Translations Center
The John Crerar Library
35 West 33rd Street
Chicago, Illinois 60616

ST
Scripta Technica, Inc.
1000 Vermont Avenue, N.W.
Washington, D.C. 20005

STS
Scientific Translation Service
1938 Verdugo Knolls Drive
Glendale, California 91200

STT
SCIENTECH, Scientific & Technical Translations
P. O. Box 3530
Cleveland, Ohio 44118

TF
Taylor and Francis Ltd.
Red Lion Court, Fleet Street
London, E. C. 4, England

TDL
Mr. John Wiley
Technical Development Laboratories
P. O. Box 769
Savannah, Georgia 31400

TIB
Technische
Informationsbibliothek
Am Welfengarten 1,
Hannover, West Germany

TIC
Technical Information Company
Patents Department
Chancery House
Chancery Lane
London, W.C. 2, England

TTIS
Translation & Technical Information Services
32 Manaton Road
London, S. E. 15, England

WBI
Warren Birkenhead, Inc.
901 Northern Life Tower
Seattle, Washington 98101
or
No. 25, 2-Chome, Shiba Hamamatsu-Cho
Minato-Ku, Tokyo, Japan

CUMULATIVE INDEXES

The following Cumulative Indexes for Technical Translations are available from Superintendent of Documents, Government Printing Office, Washington, D. C. 20402:

Volume 9	January - June	1963	$1.00
Volume 8	July - December	1962	$1.00
Volume 7	January - June	1962	$1.00
Volume 6	July - December	1961	$1.00
Volume 5	January - June	1961	$1.00
Volume 4	July - December	1960	$1.00
Volume 3	January - June	1960	$1.00
Volume 2	July - December	1959	$3.00
Volume 1	January - June	1959	$1.50

UNITED STATES DEPARTMENT OF COMMERCE
OFFICE OF TECHNICAL SERVICES
WASHINGTON, D.C. 20230

TECHNICAL TRANSLATIONS

Volume 12, Number 8 Pages 601 - 682 October 30, 1964

BIBLIOGRAPHY

APPLICATIONS TO THE HUNGARIAN NATIONAL PATENT OFFICE. 19 Jun 64, 3p JPRS: 25174.
Order from OTS HC $0.50 MF $0.50 TT-64-31526

Trans. of Ujitok Lapja [sic] (Hungary) 1964, v. 16, no. 8, p. 29.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: GENERAL NO. 7. 22 Jul 64, 7p JPRS: 25542.
Order from OTS HC $0.50 MF $0.50 TT-64-31814

Consists of abstracts of articles from the scientific and technical journals of Bulgaria, Hungary, and Poland.

LEADING SCIENTISTS OF THE USSR IN THE FIELDS OF ASTRONOMY, GEOPHYSICS, AND SPACE PHYSICS. Nov 64 [94p]. PAL-64-9.
Order from OTS HC $3.00, MF $0.75 PB-166 248

Library of Congress, Washington, D. C.
MONTHLY INDEX OF RUSSIAN ACCESSIONS.
Order from GPO $12.00/year

This index is a record of the publications in the Russian language issued in and outside the Soviet Union that are currently received by the Library of Congress and a group of cooperating libraries. Wherever possible, publications printed in other languages spoken in the Soviet Union are also included. It consists of three parts; Part A lists monographic literature published after 1944, with the title in the original language preceded by its English translation; Part B lists periodicals published after 1946; Part C constitutes a subject guide to both the monographs and periodical articles listed in Parts A and B.

AGRICULTURE

HAY MOWING TIME [AND] PLACE THE CONSTRUCTION OF DWELLINGS UNDER STRONG CONTROL. Pravda Editorials: Translations no. 284, 2 Jul 64, 6p JPRS: 25345.
Order from OTS HC $0.50 MF $0.50 TT-64-31618

Trans. from Pravda, Moscow (USSR) 1964, 29 Jun, p. 1.

PLENUM OF CENTRAL COMMITTEE OF TRADE UNION OF COMMUNICATIONS, MOTOR TRANSPORT, AND HIGHWAY WORKERS (NO. 2) [MOSCOW, MAR 64]. USSR Industrial Development: Soviet Tractors and Agricultural Machinery no. 134. 19 Aug 64, 5p JPRS: 25984.
Order from OTS HC $1.00, MF $0.50 TT-64-41255

Trans. of Avtomobil'nyi Transport (USSR) 1964 [v. 42] no. 4, p. 4-5.

USSR INDUSTRIAL DEVELOPMENT: SOVIET TRACTORS AND AGRICULTURAL MACHINERY NO. 130. 2 Jul 64, 20p JPRS: 25343.
Order from OTS HC $0.75 MF $0.50 TT-64-31616

Trans. of 41 selected articles, news items and excerpts of articles from Nov-Jan 64 issues of various Russian journals and newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET TRACTORS AND AGRICULTURAL MACHINERY NO. 131. 4 Aug 64, 73p JPRS: 25707.
Order from OTS HC $3.00 MF $0.75 TT-64-31979

Trans. (some partial) of 63 selected articles from Nov 63, Feb-Jul 64 issues of various Russian journals and newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET TRACTORS AND AGRICULTURAL MACHINERY NO. 133. 11 Aug 64, 9p JPRS: 25833.
Order from OTS HC $1.00 MF $0.50 TT-64-41104

Trans. of 4 selected articles from Mar 64 issues of Russian journals.

Separate entries have been prepared for the individual articles.

Chaus, V. M. and Grebenkin, V. K.
MACHINES FOR HARVESTING SUGAR BEETS FOR FODDER. 11 Aug 64, 2p JPRS: 25833 (p. 1-2).
Order from OTS HC $1.00 MF $0.50 in TT-64-41104 (p. 1-2)

Trans. of Byulleten' Tekhniko-Ekonomicheskoi Informatsii (USSR) 1964, no. 3, p. 62-64.

Guseinov, D. M.
UTILIZATION OF ORGANIC FOSSILS IN ORDER TO INCREASE THE YIELD OF AGRICULTURAL CROPS. 9 Jul 64, 27p 41refs JPRS: 25400.
Order from OTS HC $0.75 MF $0.50 TT-64-31673

Trans. from mono. 10 Let Akademii Nauk Azerbaidzhanskoi SSR, Nauchnaya Sessiya 23-27 Aprelya 1955 (Ten Years of the Academy of Sciences of the Azerbaidzhan SSR, Scientific Session, 23-27 April 1955) Baku, 1957.

Kalabukhov, F.
MOTOR VEHICLES SHOULD BE USED MORE EFFICIENTLY. USSR Industrial Development: Soviet Automotive Industry no. 63. 13 Aug 64, 10p JPRS: 25916.
Order from OTS HC $1.00, MF $0.50 TT-64-41187

Trans. of Avtomobil'nyi Transport (USSR) 1964 [v. 42] no. 4, p. 1-4.

Nakajima, Mitsuo, Sekine, Bunzo, Ouchi, Tatsuo, and Yamanaka, Kunio.
NEMATODICIDE. Jun 64, 8p.
Order from SA $16.00 SA Code-P-316

Trans. of published Japanese patent 8996/1963, cl. 30-F-35 (30-F-36) (30-F-371.2) (30-F-922) appl. 17062/1961 18 May 61, pub. 13 Jun 63, by Nihon Kayaku Co., Ltd.

Oi, Yasumaro, Kusanagi, Takao, Hoki, Rokuro, and Arata, Mitsuo.
PROCESS FOR MANUFACTURING FERTILIZER CONTAINING DIAMMONIUM PHOSPHATE AS CHIEF INGREDIENT. Jun 64, 5p 5refs.
Order from SA $16.00 SA Code-P-317

Trans. of published Japanese patent 13609/1963, cl. 15 L 24 (4 D 122) appl. no. 21919/1961, 23 Jun 61, pub. 30 Jul 63, by Nissan Chemical Industries, Ltd.

Osennii, V. S.
THE TRACTOR MOUNTED SNN-50 PUMPING STATION. 11 Aug 64, 2p JPRS: 25833 (p. 6-7).
Order from OTS HC $1.00 MF $0.50 in TT-64-41104 p. 6-7)

Trans. of Byulleten' Tekhniko-Ekonomicheskoi Informatsii (USSR) 1964, no. 3, p. 67-69.

Postnikov, A.
NEED FOR AGROCHEMISTRY IN THE USSR. 18 Aug 64 6p JPRS: 25956.
Order from OTS HC $1.00, MF $0.50 TT-64-41227

Trans. from Ekonomicheskaya Gazeta (USSR) 1963, no. 12[85] p. 34.

Rovnyi, G. A. and Tovchirichko, I. P.
THE VPT-600 AIR HEATER. 11 Aug 64, 3p JPRS: 25833 (p. 3-5)
Order from OTS HC $1.00 MF $0.50 in TT-64-41104 (p. 3-5)

Trans. of Byulleten' Tekhniko-Ekonomicheskoi Informatsii (USSR) 1964, no. 3, p. 65-67.

Shioyama, Itaru, Hasegawa, Akira, Kurono, Hitoshi, and Murata, Kikuzo.
NOVEL BACTERICIDES FOR AGRI- AND HORTICULTURAL PURPOSE, COMPRISING ARSENE-CONTAINING DITHIOATE. 8p.
Order from SA $19.00 SA Code-P-323

Trans. of published Japanese patent 16499/1963, 30 Aug 63, cl 30-F-373 (30-F-91) (16-B-93) (16-C-93) appl. no. 37764/1960, 13 Sep, 60, by Nihon Noyaku Co., Ltd.

Skorodumov, A. S.
INTERACTION OF PLOTS IN AGRICULTURAL EXPERIMENTS (Vzaimodeistvie Delyanok v Sel'skokhozyaistvennykh Opytakh). 15 Jul 64, 4p Trans. A-1460.
Order from OTS or ETC HC $1.00, MF $0.50 TT-64-19370

Trans. of Vestnik Sel'skokhozyaistvennoi Nauki (USSR) 1964, v. 9, no. 4, p. 52-54.

Sterkin, I., Zhigarev, L. and Khaustov, S.
NEW EQUIPMENT FOR CHEMICAL PROTECTION OF CROPS [AND] NEW ATTACHMENTS FOR CULTIVATOR HARROW SUSPENSION. USSR Industrial Development: Soviet Tractors and Agricultural Machinery No. 132. 5 Aug 64, 9p. JPRS: 25723.
Order from OTS HC $1.00 MF $0.50 TT-64-31994

Trans. of Sel'skii Mekhanizator (USSR) 1964, no. 1, p. 5-7; no. 3, p. 10-11

Zhigarev, L. and Khaustov, S.
THE NEW KPI-12, KPZh-5 AND KPM-50 ATTACHMENTS FOR TOOTHED HARROWS ON CULTIVATORS. 11 Aug 64, 2p JPRS: 25833 (p. 8-9).
Order from OTS HC $1.00 MF $0.50 in TT-64-41104 (p. 8-9)

Trans. of Sel'skii Mekhanizator (USSR) 1964, no. 3, p. 10-11.
Another trans. is available from OTS $1.00 in TT-64-31994, JPRS-25723, 5 Aug 64, 9p.

Animal Husbandry

Ashepa, M. B. and Bannov, A. T.
ERADICATION OF FOOT-AND-MOUTH DISEASE IN WINTER (Likvidatsiya Yashchura v Zimnikh Usloviyakh). 7 Jul 64, 3p Trans. V-1941.
Order from OTS or ETC HC $1.00, MF $0.50
TT-64-19364

Trans. of Veterinariya (USSR) 1964 [v. 41] no. 5, p. 38-39.

Bedenashvili, G. G.
THE USE OF GLYCERINIZED CRYSTAL VIOLET VACCINE AGAINST HOG CHOLERA ON AFFECTED FARMS (Primenenie Glitserinizirovannoi Kristallvioletvaktsiny Protiv Chumy Svinei v Neblagopoluchnykh Khozyaistvakh) 1 Jul 64, 2p Trans. V-1940.
Order from OTS or ETC HC $1.00, MF $0.50
TT-64-19363

Trans. of Veterinariya (USSR) 1963 [v. 40] no. 10, p. 31.

Ginzburg, A. G. and Ivanov, A. D.
ORGANIZATION OF VETERINARY MEDICINE IN THE USSR. 11 Aug 64, 470p JPRS: 25827.
Order from OTS HC $7.75 MF $2.25 TT-64-41098

Trans. of mono. Organizatsiya Veterinarnogo Dela, Moscow, 1962, 408p.

Koppenhofer, Gunter.
FEED ADDITIVE FOR POULTRY FOR COMBATTING FEATHER PICKING. 2p 2refs.
Order from SLA $1.10 TT-64-18474

Trans. of German patent 1,057,434, by Ramikal-Werk Hans Michelsen & Co., Hamburg-Bahrenfeld, filed 29 Jan 58, pub. 22 Oct 59.

Likhachev, N. V., Voinov, S. I., Karpovich, M. B., Alekseenok, A. Ya., and Keniya, T. Sh.
IMMUNOGENIC PROPERTIES OF FOOT-AND-MOUTH DISEASE VIRUS, SAT-1 STRAIN (Immunogennye Svoistva Shtamma Virusa Yashchura Tipa SAT-1). 8 Jul 64, 4p 5refs Trans. V-1944.
Order from OTS or ETC, HC $1.00, MF $0.50
TT-64-19367

Trans. of Veterinariya (USSR) 1964, v. 41, no. 5, p. 23-25.

Markov, A. A. and Abramov, I. V.
CHARACTERISTICS OF THE CIRCULATION OF BABESIELIA OVIS (BABES, 1892) IN ITS TICK HOST RHIPICEPHALUS BURSA CAN ET FANZ, 1877 (Osebennosti Tsirkulyatsii Vozbyditeliya Babazielloza Ovets Babesiella Ovis (Babes, 1892) v Kleshchakh Rhipicephalus Bursa Can et Fanz, 1877). Jul 64 [7p] RTS 2566.
Order from OTS or ETC HC $1.00, MF $0.50
TT-64-19378

Trans. of Veterinariya (USSR) 1957, v. 34, no. 3, p. 27-30.

Salazhov, E. L., Zagorodnov, M. V., Mustafaev, G. A., and Sharov, A. N.
BIOLOGICAL PROPERTIES OF FOOT-AND-MOUTH DISEASE SAT-1 (Biologicheskie Svoistva Shtamma Virusa Yashchura Tipa SAT-1). 8 Jul 64, 4p Trans. V-1943.
Order from OTS or ETC HC $1.00 MF $0.50
TT-64-19366

Trans. of Veterinariya (USSR) 1964, v. 41, no. 5, p. 25-27.

Voinov, S. I.
FOOT-AND-MOUTH DISEASE (FMD) CONTROL: REVIEW OF ARTICLES SUBMITTED TO THE EDITORIAL OFFICE (Bor'ba s Yashchurom: Obzor Statei, Postupivshikh v Redaktsiyu). 7 Jul 64, 12p Trans. V-1942.
Order from OTS ETC HC $1.00 MF $0.50
TT-64-19365

Trans. of Veterinariya (USSR) 1964, v. 41, no. 5, p. 32-37.

Plant Cultivation

Batyata, V. I. and Mol'derf, T. D.
ECONOMIC EFFICIENCY OF FERTILIZATION SYSTEMS IN FIELD CROP ROTATIONS (Ekonomicheskaya Effektivnost' Sistem Udobrenii v Polevom Sevooborote). 15 Jul 64, 4p Trans. A-1459.
Order from OTS or ETC HC $1.00 MF $0.50
TT-64-19371

Trans. of Vestnik Sel'skokhozyaistvennoi Nauki (USSR) 1964, v. 9, no. 4, p. 12-14.

Guseinov, D. M.
USE OF NEW KINDS OF FERTILIZERS OF PETROLEUM ORIGIN. 6 Jul 64, 64p 105refs JPRS: 25348.
Order from OTS HC $1.75 MF $0.75 TT-64-31621

Trans. of mono. Primenenie Novykh Vidov Udobrenii Neftyanogo Proiskhozhdeniya, Moscow, 1961, p. 3-64.

Liang, Chen-lan, Chang, Ta-ta, Huang, Ch'iao-hsiang, and Sun, Ch'uan-wei.
STUDIES ON THE DISTANT POLLEN INDUCTION OF COTTON. 10 Aug 64, 11p 4refs JPRS: 25819 (p. 65-75).
Order from OTS HC $3.00 MF $0.75 in TT-64-41090 (p. 65-75)

Trans. of K'o Hsüeh T'ung Pao (Chinese People's Republic) 1964, no. 5, p. 445-449.

Perkins, Narisara Edward.
ANTIPARASITIC INSECTICIDE FOR USE IN AGRICULTURE AND AT HOME. 2p.
Order from SLA $1.10 TT-64-18881

Trans. of Italian patent 431,484, filed 20 Sep 46, pub. 1 Mar 48.

Peterburgskii, A. V. and Utenyshev, Yu. P.
COMPARATIVE EVALUATION OF COMPOUND AND SIMPLE FERTILIZERS IN LIGHT SANDY LOAM SOILS. 10 Aug 64, 6p JPRS: 25809.
Order from OTS HC $1.00 MF $0.50 TT-64-41080

Trans. of [Moskovskaya] Sel'skokhozyaistvennaya Akademiya. Izvestiya (USSR) 1962, no. 3(46) p. 78-82.

Promin, M. E. and Mineev, V. G.
LATE FERTILIZATION OF WINTER WHEAT WITH UREA AS A METHOD OF IMPROVING GRAIN QUALITY. 31 Jul 64, 8p 11refs JPRS: 25688.
Order from OTS HC $1.00 MF $0.50 TT-64-31960

Trans. of Khimiya v Sel'skom Khozyaistve (USSR) 1964, no. 5, p. 8-11.

Rubin, Boris Anisimovich and Artsikhovskaya, Elena Vladimirovna.
BIOCHEMISTRY AND PHYSIOLOGY OF PLANT IMMUNITY
H. Wareing, tr. 358p.
Order from MACM $14.00

Trans. of mono. [Biokhimiya i Fiziologiya Immuniteta Rastenii, Moscow, 1960, 350p].

ASTRONOMY

Dzikiewicz, Bronislaw.
AN OUTLINE OF SPHERICAL AND PRACTICAL ASTRONOMY FOR TOPOGRAPHERS AND LAND SURVEYORS
M. Widymski and L. Widymski, trs. 1964 [167p] 19refs PL-480 Comm.
Order from OTS HC $1.75 TT-61-11308

Trans. of mono. Zarys Astronomii Sterycznej i Praktycznej dla Topografow i Geodetow [Warsaw] 1955, 199p.

Astrophysics

PROBLEMS OF COSMOGONY, 1952, VOL. I.
25 May 64, 276p JPRS: 24735.
Order from HC OTS $4.00 MF $1.50 TT-64-31319

Trans. of Voprosy Kosmogonii (USSR) 1952, v. 1, p. 1-285.

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

PROBLEMS OF COSMOGONY, 1954, VOL. 2.
21 Apr 64, 378p JPRS: 24260.
Order from OTS HC $5.00 MF $1.75 TT-64-31104

Trans. of Voprosy Kosmogonii (USSR) 1954, v. 2, p. 1-363.

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

PROBLEMS OF COSMOGONY, 1957, VOL. 5.
27 Apr 64, 275p JPRS: 24358.
Order from OTS HC $4.00 MF $1.50 TT-64-31162

Trans. of Voprosy Kosmogonii (USSR) 1957, v. 5, p. 1-299.
Other translations are available from LC or SLA (p. 203-241) mi$3.30, ph$7.80 as 59-19525 and (p. 291-296) mi$2.40, ph$3.30 as 59-16075.

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

PROBLEMS OF COSMOGONY, 1960, VOL. VII.
25 May 64, 378p JPRS: 24734.
Order from OTS HC $5.00 MF $2.00 TT-64-31318

Trans. of Voprosy Kosmogonii (USSR) 1960, v. 7, p. 1-383.
Another trans. of p. 55-58 is available from OTS, SLA, or ETC $1.10 as TT-64-15165, ACIC-TC-270, May 61 [8p].

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

SOVIET-BLOC RESEARCH IN GEOPHYSICS, ASTRONOMY, AND SPACE, NO. 87. 30 Jun 64, 32p. JPRS: 25318.
Order from OTS $16.00/year TT-61-11147-87
foreign $20.00/year

SOVIET-BLOC RESEARCH IN GEOPHYSICS, ASTRONOMY, AND SPACE, NO. 88. 14 Jul 64, 58p. JPRS: 25462
Order from OTS $16.00/year TT-61-11147-88
foreign $20.00/year

Charakhch'yan, A. N.
INVESTIGATION OF COSMIC RAY INTENSITY FLUCTUATIONS IN THE STRATOSPHERE CAUSED BY SOLAR PROCESSES. 29 Jul 64, 41p 48 refs JPRS: 25641.
Order from OTS HC$2.00, MF$0.50 TT-64-31

Trans. of #Uspekhi Fizicheskikh Nauk (USSR) 1964, v. [illegible] no. 1, p. 35-62.

Dobrovol'skii, O. V.
DIFFUSION OF METEORIC TRAILS [Diffuziya Meteornykh Sledov]
Nancy Nimitz, tr. 22 Nov 54 [24p] 14refs T-39; AD-604 786.
Order from OTS HC $1.00, MF $0.50 TT-64-71280

Trans. of Astronomicheskaya Observatoriya, Stalinabad. Byulleten' (USSR) 1952, no. 1, p. 15-26. Also available from SLA as R-3567; another trans. is available from SLA as RT-4000, 23p.

Kroshkin, M. B. and Samarin, V. G.
FIVE YEARS OF SOVIET SPACE RESEARCH. 3 Aug 64, 27p 41refs JPRS: 25705.
Order from OTS HC $2.00 MF $0.50 TT-64-31977

Trans. of Geofizicheskii Byulleten' (USSR) 1963, no. 13, p. 80-93.

Lipskii, Yu. N.
RESULTS OF OBSERVATIONS OF MARS (Rezul'taty Nablyudenii Marsa)
David Kraus, tr. Feb 64 [8p] AmMetSoc-T-R-427; AD-602 180.
Contract AF19 628 3880
Order from OTS HC $1.00 MF $0.50 TT-64-11822

Trans. of Prirode (USSR) 1957, v. 46, no. 4, p. 105-106.

Maisov, A. I.
METHOD OF MEASURING THE GRAVITATIONAL-FIELD GRADIENT IN OUTER SPACE NEAR CELESTIAL BODIES AND MEASURING THE MAGNITUDE AND DIRECTION OF SMALL ACCELERATIONS IN THE STATE OF WEIGHTLESSNESS. 7 Jul 64 [5p] FTD-TT-361; AD-602 996.
Order from OTS HC$1.00, MF$0.50 TT-64-71147

Unedited rough draft trans. of Russian patent 158,427, appl. no. 741,809/26-9, 7 Aug 61.

Sauval, A.
COLLISIONS OF THE WEST FORD NEEDLES WITH MICROMETEORITES. 28 Jul 64 [14p] 37refs RSIC-235; AD-604 328.
Order from OTS HC $1.00 MF $0.50 TT-64-71231

Trans. of Société Royale des Sciences [de] Liége. Bulletin (Belgium) 1963, v. 32, no. 1/2, p. 54-61.

Serafimov, K. and Nestorov, G.
A METHOD FOR DETERMINING THE ELECTRON DENSITY PROFILE IN THE D-REGION OF THE IONOSPHERE (Metod Opredeleniya Profilia Elektronnoi Plotnosti v Oblasti D Ionosfery)
Michael Alferieff, tr. Mar 64 [14p] 11refs E-T-R-64-24; AD-602 127.
Contract AF19 604 8505
Order from OTS HC $1.00 MF $0.50 TT-64-11818

Trans. of #Geomagnetizm i Aeronomiya (USSR) 1963, v. 3, no. 6, p. 1059-1064.

Shklovskii, I. S. and Kardashev, N. S.
GRAVITATIONAL WAVES AND "SUPERSTARS". 8 Jul 64, 4p 11refs JPRS: 25399.
Order from OTS HC $0.50 MF $0.50 TT-64-31672

Trans. of Akademiya Nauk SSSR. Doklady, 1964, v. 155, no. 5, p. 1039-1041.

BEHAVIORAL SCIENCES

Personnel and Training

THE ACADEMY OF SCIENCES UKRAINIAN SSR ANNOUNCES CANDIDATES FOR MEMBERSHIP. 10 Jul 64, 15p JPRS: 25427.
Order from OTS HC $0.50 MF $0.50 TT-64-31700

Trans. from Pravda Ukrainy (USSR) 1964, 6 May, p. 3; 7 May, p. 3-4.

AWARDS OF THE HUNGARIAN ACADEMY OF SCIENCES. 10 Jul 64, 7p JPRS: 25431.
Order from OTS HC $0.50 MF $0.50 TT-64-31704

Trans. of [Magyar Tudomanyos Akademia]. Akademiai Koslony (Hungary) 1964 [v. 13] no. 7, p. 62-64.

LENIN PRIZES IN SCIENCE AND ENGINEERING. 6 Jul 64, 6p JPRS: 25352.
Order from OTS HC $0.50 MF $0.50 TT-64-31625

Trans. from Izvestiya (USSR) 1964, 22 Apr, p. 4.

NEW DOCTORS AND CANDIDATES, FEB 64. 22 Jul 64, 4p JPRS: 25545.
Order from OTS HC $0.50 MF $0.50 TT-64-31817

Trans. of Magyar Tudomany (Hungary) 1964, v. 9[71] no. 5, p. 335-336.

Psychology

PROBLEMS IN COMPLEX SYSTEMS, CYBERNETICS, AND ENGINEERING AND SOCIAL PSYCHOLOGY. 29 Apr 64, 44p JPRS: 24395.
Order from OTS HC $1.25 MF $0.50 TT-64-31177

Trans. of Voprosy Filosofii (USSR) 1963, v. 17, no. 12, p. 16-34, 160-167.

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

Firsov, L. A.
A COMPARISON OF TRACE IMITATION WITH CONDITIONED TRACE REFLEXES IN THE CHIMPANZEE. 16 Jul 64, 17p 17refs JPRS: 25492.
Order from OTS HC $0.50 MF $0.50 TT-64-31764

Trans. of Voprosy Antropologii (USSR) 1963, no. 13, p. 52-68.

BIOLOGICAL SCIENCES

COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY: TRANSLATIONS NO. 97. 2 Jul 64, 44p JPRS: 25337.
Order from OTS HC $1.25 MF $0.50 TT-64-31610

Consists of 4 articles from various Chinese sources.

Separate entries have been prepared for the individual articles.

DOKLADY, BIOLOGICAL SCIENCES SECTIONS (DOKLADY AKADEMII NAUK SSSR) 1957-61, VOLS. 112-141 AND INDEX VOLS. 112-117. 1957-Jun 62, 31nos.
Order from OTS HC $2.00/vol.

Partial trans. (Biological Sciences sections) of Akademiya Nauk SSSR. Doklady, 1957-61, v. 112-141.

Revises announcement in TT v. 10, no. 7.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: BIOLOGY AND MEDICINE NO. 79. 1 July 64, 16p JPRS: 25325.
Order from OTS HC $0.50 MF $0.50 TT-64-31598

Consists of abstracts of articles from selected scientific and technical journals of Czechoslovakia.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: BIOLOGY AND MEDICINE NO. 80. 2 Jul 64, 21p JPRS: 25332.
Order from OTS HC $0.75 MF $0.50 TT-64-31605

Consists of abstracts of articles from the scientific and technical journals of Bulgaria, Czechoslovakia, East Germany, Hungary, and Rumania.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: BIOLOGY AND MEDICINE NO. 81. 9 Jul 64, 11p JPRS: 25403.
Order from OTS HC $0.50 MF $0.50 TT-64-31676

Consists of abstracts of articles from selected scientific and technical journals of Poland and Rumania.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: BIOLOGY AND MEDICINE NO. 82. 10 Jul 64, 24p JPRS: 25430.
Order from OTS HC $0.75 MF $0.50 TT-64-31703

Consists of abstracts of articles from selected scientific and technical journals of Bulgaria, Poland, and Yugoslavia.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: BIOLOGY AND MEDICINE NO. 84. 27 Jul 64, 82p JPRS: 25590.
Order from OTS HC$3.00, MF$0.75 TT-64-31862

Abstract trans. of Ceskoslovenska Fysiologie, 1964, v. 13, no. 3, p. 195-285.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: BIOLOGY AND MEDICINE NO. 85. 28 Jul 64, 23p JPRS: 25608.
Order from OTS HC $1.00 MF $0.50 TT-64-31880

Consists of abstracts of articles from selected scientific and technical journals of Czechoslovakia.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: BIOLOGY AND MEDICINE NO. 86. 29 Jul 64, 26p JPRS: 25640.
Order from OTS HC $2.00 MF $0.50 TT-64-31912

Consists of abstracts of articles from the scientific and technical journals of Hungary.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: BIOLOGY AND MEDICINE NO. 87. 31 Jul 64, 22p JPRS: 25683.
Order from OTS HC $1.00 MF $0.50 TT-64-31955

Consists of abstracts of articles from selected scientific and technical journals of Rumania.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: BIOLOGY AND MEDICINE NO. 88. 3 Aug 64, 10p JPRS: 25698.
Order from OTS HC $1.00 MF $0.50 TT-64-31970

Abstract trans. of Narodno Zdravlje (Yugoslavia) 1964, v. 20, no. 2, p. 41-63, 67; Veterinarski Glasnik (Yugoslavia) 1964, v. 18, no. 3, p. 331-357, 359-368, 371-378, 397-401, 406-412.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: BIOLOGY AND MEDICINE NO. 90. 10 Aug 64, 33p JPRS: 25808.
Order from OTS HC $2.00 MF $0.50 TT-64-41079

Consists of abstracts of articles from selected scientific and technical journals of Hungary and Rumania.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: BIOLOGY AND MEDICINE NO. 92. 13 Aug 64, 19p JPRS: 25911.
Order from OTS HC $1.00, MF $0.50 TT-64-41182

Consists of abstracts of articles from the scientific and technical journals of East Germany and Yugoslavia.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: BIOLOGY AND MEDICINE NO. 95. 19 Aug 64, 9p JPRS: 25975.
Order from OTS HC $1.00 MF $0.50 TT-64-41246

Abstract trans. of Archiv für Experimentelle Veterinärmedizin (East Germany) 1964, v. 18, no. 3, p. 485-515, 517-533, 535-555, 557-631, 633-657, 659-667, 669-675, 677-691, 693-712.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: BIOLOGY AND MEDICINE NO. 96. 20 Aug 64, 13p JPRS: 26009.
Order from OTS HC $1.00, MF $0.50 TT-64-41279

Consists of articles from the scientific and technical journals of Hungary.

STUDIES IN MEDICAL RESEARCH. 24 Apr 64, 19p JPRS: 24349.
Order from OTS HC $0.75 MF $0.50 TT-64-31156

Trans. of Zdorov'e (USSR) 1964 [v. 10] no. 1, p. 3-4, 6-7, 10.

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

STUDIES IN MORPHOGENESIS IN THE USSR. 10 Aug 64, 31p JPRS: 25810.
Order from OTS HC $2.00 MF $0.50 TT-64-41081

Trans. of mono. Regulyatsiya Formoobrazovaniya v Individual'nom Razvitii (Regulation of Shape Formation in Individual Development) Moscow, 1964, chaps. 7-10, p. 106-132, and contents p. 135-136.

USSR SCIENTIFIC ABSTRACTS: BIOLOGY AND MEDICINE NO. 13. 9 Jul 64, 122p JPRS: 25414.
Order from OTS HC $2.75 MF $1.00 TT-64-31687

Consists of abstracts of articles from selected scientific and technical journals of the USSR.

Belitskaya, E. Ya.
HUMAN HEALTH AND THE LAWS OF BIOLOGY AND SOCIOLOGY. 20 Aug 64, 5p JPRS: 26015.
Order from OTS HC $1.00 MF $0.50 TT-64-41285

Trans. of Zdravookhranenie Rossiiskoi Federatsii (USSR) 1964, v. 8, no. 5, p. 4-8.

El'piner, I. E.
ULTRASONIC VIBRATIONS IN MOLECULAR BIOPHYSICS. 30 Jul 64, 34p 104refs JPRS: 25651.
Order from OTS HC $2.00 MF $0.50 TT-64-31923

Trans. of #Uspekhi Sovremennoi Biologii (USSR) 1964, v. 57, no. 2, p. 211-231.

Kocherezhkin, V. G.
BIOLOGICAL INVESTIGATIONS AT THE ACADEMY OF SCIENCES OF THE USSR. 23 Jul 64, 18p JPRS: 25559.
Order from OTS HC $0.50 MF $0.50 TT-64-31831

Trans. of Akademiya Nauk SSSR. Izvestiya. [Seriya Biologicheskaya] 1964 [v. 29] no. 3, p. 482-489.

Kocherezhkin, V. G.
SESSION OF THE GENERAL MEETING OF THE ACADEMY OF SCIENCES USSR 3-5 FEB 64. 10 Aug 64, 5p JPRS: 25805.
Order from OTS HC $1.00 MF $0.50 TT-64-41076

Trans. of Akademiya Nauk SSSR. Izvestiya. Seriya Biologicheskaya, 1964, [v. 28] no. 3, p. 490-492.

Anatomy and Physiology

Chevance, L. G., Bouche, J., and Clerc, P.
COMPARISON OF THE FIBRILLAR STRUCTURES OF THE BASE OF THE STAPES AND THE OSTEOSPONGIOUS FOCUS (Comparaison des Structure Fibrillaires au Niveau de la Platine et du Foyer Otospongieux). [6 p] 5refs.
Order from SLA $1.10 TT-64-16940

Trans. of Annales d'Oto-Laryngologie (France) 1961, v. 78 [no. 12] p. 773-778.

Derevyanko, E. A. and Myl'nikov, V. G.
BIOLOGICAL EFFECTS OF GRAVITATIONAL ACCELERATION. 14 Aug 64, 16p JPRS: 25929.
Order from OTS HC $1.00, MF $0.50 TT-64-41200

Trans. of #Voprosy Psikhologii (USSR) 1964, v. 10, no. 3, p. 131-139.

Dubina, T. L.
GROWTH-RELATED CHANGES IN THE ZINC CONTENT OF HUMAN BLOOD. 7 Jul 64, 7p 11refs JPRS: 25364.
Order from OTS HC $0.50 MF $0.50 TT-64-31637

Trans. of Akademiya Navuk BSSR, Minsk. Vestsi. Seryya Biyalagichnykh Navuk, 1964, no. 1, p. 87-89.

Dudarev, V. P.
EFFECT OF ADRENALECTOMY IN WHITE RATS ADAPTED TO HYPOXIA ON RESISTANCE TO RADICAL ACCELERATION. 27 Jul 64, 6p 13refs JPRS: 25601.
Order from OTS HC $1.00 MF $0.50 TT-64-31873

Trans. of Fiziologichnyi Zhurnal (USSR) 1964, v. 10, no. 2, p. 274-277.

Faitel'berg-Blank, R.
MECHANISM OF ACTION OF ULTRASOUND ON PROCESSES OF RESORPTION IN THE GASTRO-INTESTINAL TACT. 27 Jul 64, 13p 21refs JPRS: 25600.
Order from OTS HC $1.00 MF $0.50 TT-64-31872

Trans. of Fiziologichnyi Zhurnal (USSR) 1964, v. 10, no. 2, p. 227-234.

Glozman, O. S. and Kasatkina, A. P.
EXPERIMENTAL AND CLINICAL STUDY AND THEORETICAL FOUNDATION OF THE OPERATION OF SUBSTITUTION OF BLOOD. 27 Jul 64, 9p 39refs JPRS: 25594.
Order from HC OTS $1.00 MF $0.50 TT-64-31866

Trans. of #Problemy Gematologii i Perelivaniya Krovi (USSR) [1964] v. 9, no. 5, p. 3-7.

Hrbek, M. and Novakova, A.
CERVICAL RIB: REPLY TO COMMENT BY SVEHLA. 7 Jul 64 [3p] FTD-TT-64-53; AD-602 998.
Order from OTS HC$1.00, MF$0.50 TT-64-71149

Unedited rough draft trans. of Casopis Lekaru Ceskych (Czechoslovakia) 1963, v. 102, no. 10, p. 277.

Keller, H. M.
EFFECT OF DESFERRIOXAMINE ON ERYTHROPOIESIS (Wirkung von Desferrioxamin auf die Erythropoiese). 4p.
Order from SLA $1.10 TT-64-18144

Trans. of Schweiz[erische] Med[izinische] W[ochen]schr[ift] 1963, v. 93 [no. 42] p. 1511-1512.

Kvitnitskii, M. E.
NORMAL SPATIAL VECTORCARDIOGRAM IN LABORATORY ANIMALS (DOGS, CATS, AND RABBITS) AND METHODS FOR ITS RECORDING. 27 Jul 64, 9p 12refs JPRS: 25599.
Order from OTS HC$1.00, MF$0.50 TT-64-31871

Trans. of Fiziologichnyi Zhurnal (USSR) 1964, v. 10, no. 2, p. 177-182.

Muravov, I. V. and Tkachov, F. T.
PHYSIOLOGICAL ANALYSIS OF THE EFFECTS OF PRECEDING MUSCULAR EFFORTS ON THE WORKING CAPACITY OF UNFATIGUED MUSCLES. 27 Jul 64, 11p 18refs JPRS: 25593.
Order from OTS HC $1.00 MF $0.50 TT-64-31865

Trans. of Fiziologichnyi Zhurnal (USSR) 1964, v. 10, no. 2, p. 163-170.

Scholz, A. and Oeff, K.
DESFERRIOXAMINE FOR DETERMINATION OF THE SIZE OF THE LABILE IRON POOL (Desferrioxamin zur Bestimmung der Grösse des Labilen Eisenpools). 4p 2refs
Order from SLA $1.10 TT-64-18147

Trans. of Klin[ische] W[ochen]schr[ift] (West Germany) 1963, v. 41, p. 1186-1188.

Svehla.
CERVICAL RIB: REPLY TO COMMENT BY M. HRBEK AND A. NOVAKOVA. 8 Jul 64 [5p] FTD-TT-64-34; AD-602 999.
Order from OTS HC$1.00, MF$0.50 TT-64-71150

Unedited rough draft trans. of Casopis Lekaru Ceskych (Czechoslovakia) 1963, v. 102, no. 10, p. 277.

Biochemistry

DOKLADY, BIOCHEMISTRY SECTIONS (DOKLADY AKADEMII NAUK SSSR) 1958-61, VOLS. 118-141. 1958-Jun 62, 24nos.
Order from OTS HC $0.50/vol.

Partial trans. (Biochemistry sections) of Akademiya Nauk SSSR. Doklady, 1958-61, v. 118-141.

Revises announcement in TT v. 10, no. 6.

PROCESS FOR PREPARATION OF PRIMARY ALCOHOLS ALCOHOLS OF THE VITAMIN A SERIES. 7p 2refs.
Order from SLA $1.10 TT-64-18470

Trans. of Norwegian patent 94,554, by N. V. Philips, filed 27 Nov 53, pub. 4 July 59.

PROCESS FOR PREPARATION OF UNSATURATED PRIMARY ALCOHOLS OF THE VITAMIN A SERIES. 5p 1ref.
Order from SLA $1.10 TT-64-18469

Trans. of Norwegian patent 95,498, by N. V. Philips, filed 11 Sep 56, pub. 19 Dec 59.

PROCESS FOR PREPARATION OF UNSATURATED PRIMARY ALCOHOLS OF THE VITAMIN A SERIES. 4p 1ref.
Order from SLA $1.10 TT-64-18468

Trans. of Norwegian patent 95,499, by N. V. Philips, filed 11 Sep 56, pub. 19 Dec 59.

PROCESS FOR PREPARATION OF VITAMIN A. 10p.
Order from SLA $1.10 TT-64-18467

Trans. of Norwegian patent 95,500, by N. V. Philips, filed 11 Sep 56, pub. 19 Dec 59.

Bertrand, G. and Nakamura, H.
PHYSIOLOGICAL IMPORTANCE OF NICKEL AND COBALT (Recherches sur l' Importance Physiologique du Nickel et du Cobalt). 5p 6refs.
Order from SLA $1.10 TT-64-16209

Trans. of Soc[iété de] Chim[ie] Biol[ogique]. Bull[etin] 1934, v. 16, p. 1366-1371 (pub. also in Academie des Sciences, Paris. Comptes Rendus (France) 1927, v. 185 p. 321. (pub. by Gauthier-Villars et Cie., Paris).

Bickel, H., Keberle, H., and Vischer, E.
METABOLIC PRODUCTS OF MICROORGANISMS. REPT. 43. FACTS ABOUT DESFERRIOXAMINE B (Stoffwechselprodukte von Mikroorganismen. 43. Mitteilung. Zur Kenntnis von Desferrioxamin B). 6p 19refs.
Order from SLA $1.10 TT-64-18141

Trans. of Helv[etica] Chim[ica] Acta (Switzerland) 1963, v. 46 [no. 4] p. 1385-1389.

Bresler, S. E., Kreneva, R. A., Kushev, V. V., and Moseviskii, M. I.
PRATICIPATION OF BOTH STRANDS OF DNA IN TRANSFER OF GENETIC INFORMATION. 31 Jul 64, 15p 24refs JPRS: 25677.
Order from OTS HC $1.00 MF $0.50 TT-64-31949

Trans. of #Biokhimiya (USSR) 1964, v. 29, no. 3, p. 477-48 6.

Chevillard, L.
PYROPHOSPHATASES OF THE FEMUR BONE MARROW, THE LYMPHATIC GANGLIONS AND THE EXUDATE LEUCOCYTES OF THE GUINEA PIG AND THE BLOOD PLATELETS OF THE RABBIT (Sur les Pyrophosphatases de la Moelle du Femur, des Ganglions Lymphatiques, des Leucocytes d'Exsudats chez le Cobaye, et des Plaquettes Sanguines chez le Lapin). 3p 4refs.
Order from SLA $1.10 TT-64-16203

Trans. of Soc[iété de] Biol[ogie et des ses Filiales]. Compt[es] Rend[us des Seances] (France) 1946, v. 140 [no. 23/24] p. 955-956.

Evstigneev, V. B. and Gavrilova, V. A.
COMPARISON OF OXIDATION POTENTIALS OF CHLOROPHYLL AND BACTERIAL PIGMENTS UNDER ILLUMINATION. 6p 13refs.
Order from SLA $1.10 TT-64-18830

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1964, v. 154 [no. 3] p. 714-717.

Evstigneev, V. B. and Bekasova, O. D.
PHOTOREDUCTION OF CHLOROPHYLL a, BACTERIOVIRIDIN, BACTERIOCHLOROPHYLL AND PROTOCHLOROPHYLL IN NONPOLAR SOLVENTS. 6p 15refs.
Order from SLA $1.10 TT-64-18826

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1964, v. 154 [no. 4] p. 946-949.

Godnev, T. N., Khodasevich, E. V., and Akulovich, N. K.
THE AFTER-EFFECT OF POWERFUL LIGHT-PULSES ON STABILITY OF THE PHOTOSYNTHESIZING APPARATUS. 5p 9refs.
Order from SLA $1.10 TT-64-18835

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1964, v. 156 [no. 2] p. 471-473.

Gurinovich, G. P., Patsko, A. I., Shul'ga, A. M., and Sevchenko, A. N.
MECHANISM OF REGENERATION OF PORPHYRINS AFTER PHOTOREDUCTION. 5p 9refs.
Order from SLA $1.10 TT-64-18834

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1964, v. 156 [no. 1] p. 125-127

Hooper, C. W.
PROCESS FOR PREPARATION OF STABLE SOLUTIONS OF FAT-SOLUBLE VITAMINS. 2p.
Order from SLA $1.10 TT-64-18466

Trans. of Swedish patent 89,261, by I. G. Farbenindustrie A. G., Ludwigshafen, n.d.

Huisman and Smit.
PROCESS FOR THE PREPARATION OF α, β-UNSATURATED ACID HALIDES OF THE VITAMIN A SERIES. 10p.
Order from SLA $1.10 TT-64-18047

Trans. of German patent 1,003,726, by Phillips N. V. (Netherlands) pub. 7 Mar 57.

Kathen, Hans.
ON THE DETERMINATION OF THE CHEMICAL CONSTITUTION OF ALGAE LIPOIDS WITH THE HELP OF ADSORPTION METHODS (EXPERIMENTS ON CHLORELLA, SCENEDESMUS AND NITZSCHIA). [30p] 38refs.
Order from SLA $2.60 TT-64-18876

Trans. of Archiv für Mikrobiologie (West Germany) 1950, v. 14 [no. 4] p. 602-634.

Komissarov, G. G., Nekrasov, L. I., and Kobozev, N. I.
DURATION OF CHLOROPHYLL FLUORESCENCE AT DIFFERENT CONCENTRATIONS IN ADSORBATES AND IN THE GREEN LEAF. 5p 17refs.
Order from SLA $1.10 TT-64-18827

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1964, v. 154 [no. 4] p. 950-952.

Kramarenko, V. P.
BINDING OF ALKALOIDS WITH PROTEIN MATERIALS. 6p 26refs.
Order from SLA $1.10 TT-64-18354

Trans. of Farmatsevtychnyi Zhurnal (USSR) 1961, v. 16, no. 4, p. 16-20.

Litvin, F. F., Sineshchekov, V. A., Krasnovskii, A. A.
LONG-WAVE FORMS OF CHLOROPHYLL IN PHOTOSYNTHESIZING ORGANISMS AND IN AGGREGATED STRUCTURES. 5p 11refs.
Order from SLA $1.10 TT-64-18829

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1964, v. 154 [no. 2] p. 460-462.

Manunta, Giovanni.
INHIBITION OF LACTATION BY p-HYDROXY-PROPIOPHENONE. 3p (2 figs omitted) 12refs.
Available on loan from SLA TT-64-16806

Trans. of Accad[emia] Naz[ionale dei] Lincei. Atti. Classe [di] Sci[enze] Fis[iche] Mat[ematiche e] Nat[urali]. Rend[iconti] (Italy) 1952 [ser. 8] v. 12 [no. 4] p. 444-448.

Saakov, V. A.
THE ROLE OF CAROTENOIDS IN THE MECHANISM OF OXYGEN TRANSFER IN PHOTOSYNTHESIS. 6p 20refs.
Order from SLA $1.10 TT-64-18832

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1964, v. 155 [no. 5] p. 1212-1215.

Samsonov, G. V., Ponomareva, R. B., and Shandalova, L. P.
CHANGE OF PROTEIN MACROMOLECULAR SIZE DURING BREAKDOWN OF THEIR TERNARY STRUCTURE IN THE PROCESS OF THE CLEAVAGE OF THE DISULFIDE BONDS. 2 Jul 64, 5p 16refs JPRS: 25340.
Order from OTS HC $0.50 MF $0.50 TT-64-31613

Trans. of Akademiya Nauk SSSR. Doklady, 1964, v. 154, no. 6, p. 1448-1451.

Sapozhnikov, D. I., Alkhazov, D. G., Eidel'man, Z. M., Bazhanova, N. V., Lemberg, I. Kh., Maslova, T. G., and others.
CONTRIBUTION OF XANTHOPHYLLS TO OXYGEN TRANSPORT IN THE PHOTOSYNTHETIC PROCESS. 6p 16refs.
Order from SLA $1.10 TT-64-18828

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1964, v. 154 [no. 4] p. 974-977.
Another trans. is available from OTS $0.50 as TT-64-31395, JPRS-24904, 3 Jun 64, 7p.

Smirnov, V. N., Mazurov, V. I., Goncharova, V. P., Smirnov, M. N., and Shkarenkova, L.
RIBONUCLEIC ACID AND COLLAGEN SYNTHESIS BY FIBROBLASTS DURING CONNECTIVE TISSUE GROWTH. 31 Jul 64, 8p 26refs JPRS: 25667.
Order from OTS HC $1.00 MF $0.50 TT-64-31939

Trans. of Voprosy Meditsinskoi Khimii (USSR) 1964, v. 10, no. 3, p. 305-310.

Staehelin, M., Braunwalder, A., and Stäubli, W.
MOLECULAR CELL CHANGES IN THE REGULATION OF PROTEIN SYNTHESIS (Molekulare Zellveränderungen bei der Regulation der Eiweissynthese). 11p 17refs.
Order from SLA $1.60 TT-64-18140

Trans. of Schweiz[eriche] Med[izinische] W[ochen]schr[ift] 1964, v. 94, no. 7, p. 262-266

Tsukamoto, Takeo and Kawasaki, Toshio.
ON THE SUGAR COMPONENT OF DIOSCIN. 4p (foreign text included) 4refs.
Order from SLA $1.10 TT-64-18624

Trans. of Yakugaku Zasshi (Japan) 1953, v. 73 [no. 4] p. 415.

Wang, Ying-lai.
BIOCHEMISTRY IN CHINA: DEVELOPMENTS AND TASKS. 2 Jul 64, 9p JPRS: 25337 (p. 16-24).
Order from OTS HC $1.25 MF $0.50 in TT-64-31610 (p. 16-24)

Trans. of mono. Ti I Tzu Ch'uan Kuo Sheng Wu Hua-Hsüeh Hsüeh Shu Hui I Hui k'an (Collected Papers on the All-China Technical Conference on Biochemistry (no. 1)) Peiping, Sep 62, p. 1-7.

Wiss, O. and Fuchs, H.
ON THE PREPARATION OF α-AMINO- γ-OXO CARBOXYLIC ACIDS BY CONDENSATION OF α-OXO MONOBROMIDES WITH SODIUM ACETAMIDO MALONIC ESTER 6p 5refs.
Order from SLA $1.10 TT-64-18880

Trans. of Helvetica Chimica Acta (Switzerland) 1952, v. 35 [no. 1] p. 407-411.

Ying, Hung-chang.
VIEWS ON THE TASKS OF PLANT BIOCHEMISTRY AND ITS DEVELOPMENT. 2 Jul 64, 15p JPRS: 25337 (p. 1-15).
Order from OTS HC $1.25 MF $0.50 in TT-64-31610 (p. 1-15)

Trans. of mono. Ti I Tzu Ch'uan Kuo Sheng Wu Hua Hsüeh Hsüeh Shu Hui I Hui k'an (Collected Papers on the All-China Technical Conference on Biochemistry (no. 1)) Peiping, Sep 62, p. 85-94.

Botany

DOKLADY, BOTANICAL SCIENCES SECTIONS (DOKLADY, AKADEMII NAUK SSSR) 1957-61, VOLS. 112-141 AND INDEX VOLS. 112-117. 1957-Jun 62, 31nos.
Order from OTS HC $0.50/vol.

Partial trans. (Botanical Sciences sections) of Akademiya Nauk SSSR. Doklady, 1957-61, v. 112-141.

Revises announcement in TT v. 10, no. 6.

MATERIALS ON THE STUDY OF FLORA AND VEGETATION OF THE URAL (Materialy po Izucheniyu Flory i Rastite'nosti Urala) 20 Jan 64 [195p] FTD-TT-63-665.
Order from OTS, or ETC HC$6.00, MF$1.25 TT-64-15232

Unedited rough draft trans. of Akademiya Nauk SSSR. Institut Biologii, Sverdlovsk. Trudy, 1962, no. 28, 130p.

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

PLANT PHYSIOLOGY, 1957-61, VOLS. 4-8. 1957-Jun 62, 31nos.
Order from OTS HC $1.50/issue*

Trans. of Fiziologiya Rastenii (USSR) 1957-61, v. 4-8.

*Except 1961, v. 8, no. 1 which is available only in Xerox $9.60.

Lin, Jung.
THIRTY YEARS OF BOTANY IN CHINA: A REVIEW. 10 Aug 64, 23p JPRS: 25819 (p. 1-23).
Order from OTS HC $3.00 MF $0.75 in TT-64-41090 (p. 1-23)

Trans. of Sheng Wu Hsüeh T'ung Pao (Chinese People's Republic) 1964, no. 2, p. 1-8.

Ozol, A. M., Kraevoi, S. Ya., Ipekdzhiyan, V. M., Savin, E. N. and others.
THE STATE OF WALNUT SHOOT-TISSUE CELLS DURING WINTER DORMANCY AND THEIR WINTER HARDINESS: ON THE EFFECT OF LOW CRITICAL TEMPERATURES ON OAK SEEDLINGS: WINTER TRANSPIRATION OF OAK SEEDLING SHOOTS IN RELATION TO THEIR WINTER HARDINESS: FACTORS AFFECTING THE INCREMENT OF TREE SPECIES IN DROUGHTY STEPPE. 1964, 24p 46refs PL-480 Agr.
Order from OTS HC $0.50 MF $0.50 TT-63-11009

Trans. of Akademiya Nauk SSSR. Doklady, 1953, v. 89, no. 6, p. 1111-1114; 1954, v. 96, no. 4, p. 841-844; Fiziologiya Rastenii (USSR) 1955, v. 2, no. 4, p. 373-377; Botanicheskii Zhurnal (USSR) 1959, v. 44, no. 6, p. 854-860.

Shmidt, V. M.
THE BIOMETRICAL METHOD IN BOTANICAL TAXONOMY. 6 Jul 64, 21p 74refs JPRS: 25353.
Order from OTS HC $0.75 MF $0.50 TT-64-31626

Trans. of Botanicheskii Zhurnal (USSR) 1964, v. 49, no. 1, p. 85-93.

Torje, D.
NEW PLANT VARIETIES CREATED IN RUMANIA. 6 Jul 64, 4p JPRS: 25354.
Order from OTS HC $0.50 MF $0.50 TT-64-31627

Trans. from Rominia Libera (Rumania) 1964, v. 22, no. 6092, 20 May, p. 1 and 3.

Medical Specialties and Equipment

Dzhavadyan, N. S., Ivanova, L. N., and Filimonov, S. I.
INTRACARDIAC INVESTIGATION OF BLOOD PRESSURE AND PHONOCARDIOGRAM IN EXPERIMENT WITH NEW SOVIET APPARATUS. 13 Aug 64, 5p 14refs JPRS: 25897.
Order from OTS HC $1.00, MF $0.50 TT-64-41168

Trans. of Patologicheskaya Fiziologiya i Eksperimental'naya Terapiya (USSR) 1963. v. 7. no. 2. p. 78-80.

Kovacsics, Janos.
HIGHER EDUCATION IN THE FIELD OF HEALTH IN THE RUMANIAN PEOPLE'S REPUBLIC. 9 Jul 64, 21p JPRS: 25402.
Order from OTS HC $0.75 MF $0.50 TT-64-31675

Trans. of Felsooktatasi Szemle (Hungary) 1964, v. 13, no. 3, p. 166-181.

Minchenkova, B. I., Demidov, G. E., Lubyaniskii, G.D., Tyukina, A. P., and Konyukhov, V. G.
ULTRASONIC AND ELECTRONIC MEDICAL DEVICES: UTP-1P PORTABLE APPARATUS, UM2-2 TYPE ULTRASONIC INSTALLATION, AND EVA-6-100m ELECTROHYGROMETER. 21 Jul 64, 16p. 7refs JPRS: 25533.
Order from OTS HC$0.50, MF$0.50 TT-64-31805

Trans. of Meditsinskaya Promyshlennost' SSSR, 1964, v. 18, no. 2, p. 46-55.

Microbiology

INVITATION TO THE SCIENTIFIC MEETING OF THE BACTERIOLOGY AND VIROLOGY SECTION OF THE HUNGARIAN MICROBIOLOGICAL SOCIETY. 23 Jul 64, 2p JPRS: 25565.
Order from OTS HC $0.50 MF $0.50 TT-64-31837

Trans. of Orvosi Hetilap (Hungary) 1964, v. 105, no. 21, p. 1005

MICROBIOLOGY, 1959-61, VOLS. 28-30. 1959-Jun 62, 18nos.
Order from OTS HC $1.50/issue

Trans. of Mikrobiologiya (USSR) 1959-61, v. 28-30.

Revises announcement in TT v. 10, no. 6.

Bret, A. J., Tapie, M., and Durieux, R.
CONTRIBUTION TO THE STUDY OF NEONATAL INFECTIONS: PROTEUS VAGINAL INFECTIONS (PROTEUS VAGINITIS) (Contribution a l'Étude des Infections Néo-Natales - Infections Vaginales à Proteus). 8p.
Order from SLA $1.10 TT-64-18739

Trans. of la Presse Méd[icale] (France) 1960, v. 68 [no. 54] p. 2091-2092.

Kuksa, I. N.
IN THE SCIENTIFIC COUNCIL FOR PROBLEMS OF PHYSIOLOGY AND BIOCHEMISTRY OF MICRO-ORGANISMS (ACADEMY OF SCIENCES USSR).
21 Jul 64, 6p JPRS: 25526.
Order from OTS HC $0.50 MF $0.50 TT-64-31798

Trans. of Akademiya Nauk SSSR. Izvestiya. Seriya Biologicheskaya, 1964 [v. 29] no. 3, p. 492-494.

Matyshevs'ka, M. S.
THE EFFECT OF ENVIRONMENTAL CONDITIONS ON THE DEVELOPMENT OF PARASITISM IN PHYTO-PATHOGENIC BACTERIA (Vplyv Umov Zovnishn'oho Seredovyshcha na Formuvannya Parazytyzmu u Fito-pathohennykh Bakterii). 1964, 8p 41refs PL-480 Agr.
Order from OTS HC $0.50 MF $0.50 TT-64-11007

Trans. of Mikrobiologichnyi Zhurnal (USSR) 1959, v. 21, no. 5, p. 58-65.

Moiraghi-Ruggenini, A.
COLIMYCIN PENICILLIN AND PENICILLIN RESISTANT STAPHYLOCOCCI. 3p 2refs.
Order from SLA $1.10 TT-64-18734

Trans. of Minerva Med[ica] (Italy) 1958, v. 49 [no. 97] p. 4543.

Sacrez, R., Lévy, J.-M., Minck, R., and Poirier, G.
CONTRIBUTION TO THE STUDY OF THE PATHO-GENIC POWER OF ESCHERICHIA COLI O 111 B4 (Contribution a l'Etude du Pouvoir Pathogene d'Escherichia Coli O 111 B4). 11p (2 tables 33refs omitted).
Order from SLA $1.60 TT-64-18740

Trans. of Archives Francaises de Pédiatrie 1958, v. 15, no. 9 [p. 1204-1212].

Samarin, G.
WORK OF KUYBYSHEV INSTITUTE OF EPIDEMIOL-OGY, MICROBIOLOGY, AND HYGIENE. 15 Jul 64, 5p JPRS: 25477.
Order from HC $0.50 MF $0.50 TT-64-31749

Trans. from Meditsinskaya Gazeta (USSR) 1964 [v. 27] 24 Jan, p. 2.

Thiele, F. A. J. and Senden, K. G. van.
SIGNIFICANCE OF THE REDUCTION INDEX FOR MICROORGANISMS ON THE SKIN WITH GERMICIDAL SOAPS. 6p
Order from SLA $1.10 TT-64-18136

Trans. of Fette, Seifen, Anstrichmittel (West Germany) 1964, v. 66, no. 1, p. 59-61.

Neurology and Psychiatry

Persic, Nikola.
PSYCHIATRY IN THE SOVIET UNION. 22 May 64 [25p] FTD-TT-64-259; AD-602 385.
Order from OTS HC $1.00, MF $0.50 TT-64-11895

Unedited rough draft trans. of Lijecnicki Vjesnik (Yugoslavia) 1963, v. 85, no. 7, p. 747-758. Another trans. is available from OTS $0.75 in TT-63-11458/7, 1964, 75p.

Verga, G.
PYRIDOXINE IN THE PATHOGENESIS AND TREAT-MENT OF PSYCHIATRIC AND NEUROLOGIC DIS-EASES. 23p 70refs.
Order from SLA $2.60 TT-64-18067

Trans. of Acta Vitaminologica (Italy) 1963, v. 17, [no. 6] p. 239-254.

Pathology

EPIDEMIOLOGICAL REVIEW, 1963, VOL. 17, NO. 1/2, 1963, 145p PL-480 HEW.
Order from OTS HC $1.50 MF $1.25 TT-63-11414/1-2

Trans. of Przeglad Epidemiologiczny (Poland) 1963, v. 17, no. 1/2.

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

EPIDEMIOLOGY REPORTS FROM THE WORLD PRESS NO. 6. 4 Aug 64, 29p JPRS: 25708.
Order from OTS HC $2.00 MF $0.50 TT-64-31980

Trans. of 44 short Dec 63-Jul 64 news items covering incidence and outbreaks of human, animal, and plant diseases in various countries.

PROBLEMS OF THE PHYSIOLOGY AND PATHOLOGY OF HIGHER NERVOUS ACTIVITY IN MAN AND ANI-MAL (Voprosy Fiziologii i Patologii Nervnoi Sistemy). 5 Dec 63 [1042p] FTD-TT-63-651.
Order from OTS or ETC HC $13.85 MF $4.25 TT-64-15252

Unedited rough draft trans. of Akademiya Nauk SSSR. Institut Fiziologii. Trudy, 1959, v. 8, p. 1-632. Translations of p. 77-80, 421-425, 426-432, 433-440, 476-478, 501-508, 526-531 are available separately elsewhere.

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

Boulez, N., Courtieu, A.-L., and Botta, J. -M.
PROBLEMS RAISED BY AN EPIDEMIC OF SPECIFIC E. COLI GASTROENTERITIS IN A COMMUNITY OF INFANTS AND CHILDREN. IMPORTANCE OF SULFAMIDE ANTIBIOTHERAPY (Problemes Souleves par une Epidemie de Gastroenterites a E. Coli Specifiques dans une Collectivite de Nourrissons et d'Enfants. Interet de la Salufamido-Antibiotherapie). [Abstract of paper presented at] French Pediatric Society, Lyon Session, 20 Nov 60. 1p.
Order from SLA $1.10 TT-64-18633

Trans. of la Presse Med[icale] (France) 1961, v. 69 [no. 26] p. 1189.

Bunina, T. L.
AMYOTROPHIC LATERAL SCLEROSIS. 8 Jul 64, 12p 5refs JPRS: 25378.
Order from OTS HC $0.50 MF $0.50 TT-64-31651

Trans. of Zhurnal Nevropatologii i Psikhiatrii (USSR) 1960, v. 60, no. 9, p. 1096-1100.
Another trans. is available from OTS or ETC HC $1.00, MF $0.50 as TT-63-23134, NIH-6-12-63, 10 Jun 63, 9p.

Burckhardt, W.
PHOTOALLERGIC ECZEMA CAUSED BY BLANKOPHORES (OPTICAL BRIGHTENERS).
7p 8refs
Order from SLA $1.10 TT-64-18532

Trans. of Hautarzt (West Germany) 1957, v. 8, p. 486-488.

Chentsov, B. V.
TOXIC AND ANTIMICROBIAL SUBSTANCES IN THE TISSUES OF SOME SEA INVERTEBRATES
Z. Knowles, tr. 1 Jun 64, 8p 47refs NIH no. 6-2-64.
Order from OTS or ETC HC $1.00, MF $0.50 TT-64-19345

Trans. of [Akademiya Nauk SSSR]. Murmanskii Morskoi Biologicheskii Institut. Trudy, 1962, v. 4(8) p. 244-249.

Chu, Shou-ho.
PEDIATRICS IN CHINA, PAST AND PRESENT.
2 Jul 64, 6p JPRS: 25337 (p. 25-30).
Order from OTS HC $1.25 MF $0.50 in TT-64-31610 (p. 25-30)

Trans. from Chung Kuo Hsin Wen (Chinese People's Republic) 1964, 28 May, p. 9.

Cirla, Piero.
OCCUPATIONAL DISEASES FROM EXPOSURE TO GLASS FIBERS. 9p 10refs.
Order from SLA $1.10 TT-64-16202

Trans. of la Medicina del Lavoro (Italy) 1948, v. 39, p. 152-157.

Darnaud, Ch., Denard, Y., Moreau, G., and Voisin, R.
HOPE FOR THE TREATMENT OF HEMOCHROMATOSIS: REMOVAL OF IRON BY DESFERRIOXAMINE (Un Espoir de Traitement de l' Hemochromatose: le Drainage du fer par la Desferrioxamine). 1p.
Order from SLA $1.10 TT-64-16851

Trans. of la Presse Méd[icale] (France) 1963, v. 71, no. 14, p. 736.

Goryukhina, T. A., Ainbinder, N. M., Dil'man, V. M., Mukhina, E. P., and Nechaeva, I. D.
TUMOR PROTEINS AND UTERINE CANCER ELECTROPHORETIC SEPARATION OF SOLUBLE LIVER PROTEINS OF ANIMALS WITH TRANSPLANTED TUMORS [AND] EXPERIENCE IN THE EMPLOYMENT OF ANTIBIOTIC 2703 IN SIX CASES OF CHORIONEPITHELIOMA OF THE UTERUS. 17 Aug 64, 24p 16refs JPRS: 25946.
Order from OTS HC $2.00, MF $0.50 TT-64-41217

Trans. of #Voprosy Onkologii (USSR) 1964, v. 10, no. 5, p. 44-49, 103-107.

Kao, Yun-ch'iu, Chin, Jui-ho, and Hsu, Tsu-po.
A STUDY OF FUNCTIONAL HEART MURMURS.
10 Aug 64, 4p JPRS: 25819 (p. 61-64).
Order from OTS HC $3.00 MF $0.75 in TT-64-41090 (p. 61-64)

Trans. (excerpts) of Chung Hua Nei K'o Tsa Chih (Chinese People's Republic) 1964, v. 12, no. 3, p. 278.

Konovalov, N. V., Popova, L. M., and Chondkaryan, O. A.
HISTOPATHOLOGY OF POLIOMYELITIS ANTERIOR SUBACUTA. 8 Jul 64, 24p JPRS: 25388.
Order from OTS HC $0.75 MF $0.50 TT-64-31661

Trans. of Psychiatrie, Neurologie und Medizinische Psychologie (East Germany) [1963] v. 15, no. 6/7, p. 215-226.

Kusov, V. N.
SIGNIFICANCE OF DIFFERENT STAGES OF METAMORPHOSIS IN ORNITHODOROS LAHORENSIS IN THE ETIOLOGY OF TICK PARALYSIS. [15p] 40refs NAMRU Trans. 99(T99).
Order from OTS or ETC HC $1.00 MF $0.50 TT-64-15634

Trans. of mono. Parazity Sel'skokhozyaistvennykh Zhivotnykh Kazakhstana (Parasites of Farm Animals in Kazakhstan) v. 1, Alma-Ata, 1962, p. 236-246.

Kusov, V. N., Amanzhulov, S. A., and Postricheva, O. V.
ON THE PROBLEM OF Q FEVER INFECTION IN THE GENUS ORNITHODOROS (PRELIMINARY INFORMATION). 9p 22refs NAMRU Trans. 85(T85).
Order from OTS or ETC HC $1.00 MF $0.50 TT-64-15638

Trans. of mono. Parazity Sel'skokhozyaistvennykh Zhivotnykh Kazakhstana (Parasites of Farm Animals in Kazakhstan) v. 1, Alma-Ata, 1962, p. 229-235.

Maistrakh, E. V.
STUDIES IN HYPOTHERMIA AND ANABIOSIS: INTRODUCTION [AND] CONCLUSION. 30 Jul 64, 21p JPRS: 25650.
Order from OTS HC $1.00 MF $0.50 TT-64-31922

Trans. of mono. Gipotermiya i Anabioz, Moscow, 1964, p. 3-23, 285-288.

Makarchenko, A. F.
OXYGEN DEFICIENCY: INTRODUCTION, SELECTED ARTICLE, BIBLIOGRAPHY, AND TABLE OF CONTENTS. 10 Aug 64, 98p JPRS: 25796.
Order from OTS HC $3.00 MF $0.75 TT-64-41067

Trans. of mono. Kislorodnaya Nedostatochnost', Kiev, 1963, p. 2-13, 571-610.

Massino, S.
EPIDEMIOLOGY AND STATISTICS OF TUBERCULOSIS. 12 Aug 64, 16p JPRS: 25873.
Order from OTS HC $1.00 MF $0.50 TT-64-41144

Trans. of Bol'shaya Meditsinskaya Entsiklopediya (USSR) 1963, v. 32, p. 941-954.

Mittel'shtedt, A. A. and Bauman, L. K.
COPPER METABOLISM IN HEPATOLENTICULAR DEGENERATION. 31 Jul 64, 6p 21refs JPRS: 25665.
Order from OTS HC $1.00 MF $0.50 TT-64-31937

Trans. of Voprosy Meditsinskoi Khimii (USSR) 1964, v. 10, no. 3, p. 252-256.

Papillon-Leage and Psaume, J.
[ABNORMALITIES OF THE BUCCAL FRENA] [11p] (46 figs omitted).
Order from SLA $1.60 TT-64-16111

Trans. of [Actualites Odonto-Stomatologiques] (France) 1954, no. 25, p. 7-26.

Paul, Renate and Marget, W.
PSEUDOMONAS AERUGINOSA INFECTIONS (PYOCYANEUS INFECTIONS) IN INFANTS AND YOUNG CHILDREN (Pseudomonas-Aeruginosa-Infektionen (Pyocyaneus-Infektionen) des Säuglings und Kleinkindes). 13p 88refs.
Order from SLA $1.60 TT-64-18635

Trans. of Deut[sche] Med[izinische] Woch[en]schr[ift] (West Germany) 1963, v. 88 [no. 34] p. 1638-1643.

Pestel, M.
RECENT PATHOGENIC INFORMATION ON HEMOCHROMATOSIS: DESFERRIOXAMINE THERAPY (Acquisitions Pathogéniques Récentes sur l' Hémochromatose. Intéret du Traitement par la Desferrioxamine). 3p.
Order from SLA $1.10 TT-64-16849

Trans. of la Presse Méd[icale] (France) 1963, v. 71 [no. 27] p. 1403.

Rogoz, Adrian.
ACTIVITIES OF THE "DR. I. CANTACUZINO" INSTITUTE OF MICROBIOLOGY, PARASITOLOGY, AND EPIDEMIOLOGY. 2 Jul 64, 4p JPRS: 25338.
Order from OTS HC $0.50 MF $0.50 TT-64-31611

Trans. from Scinteia (Rumania) 1964, 28 May, p. 1 and 5

Thedering, F.
THERAPY OF HEMOSIDEROSIS (Zur Therapie der Hämosiderose). 1p.
Order from SLA $1.10 TT-64-18142

Trans. of Med[izinische] Welt (West Germany) 1963, no. 12, p. 662.

Tscharny, A. M.
PATHOLOGY OF THE METABOLISM IN THE PRESENCE OF LEAD POISONING OF THE ORGANISM. I. NITROGEN METABOLISM OF CARNIVORA IN CHRONIC LEAD POISONING. 9p.
Order from SLA $1.10 TT-64-16240

Partial trans. (p. 11-18, p. 40-41) of Arch[iv] f[ür] Gewerbepath[ologie und Gewerbehygiene] (Germany) 193[illegible] v. 2, p. 11-[41].

Tscharny, A. M.
PATHOLOGY OF THE METABOLISM IN THE PRESENCE OF LEAD POISONING OF THE ORGANISM. II. ALKALI RESERVES OF THE BLOOD IN CHRONIC SATURNISM. 5p.
Order from SLA $1.10 TT-64-16239

Trans. of Arch[iv] f[ür] Gewerbepath[ologie und Gewerbehygiene] (Germany) 1931, v. 2, p. 42-[46].

Tscharny, A. [M]. and Israilewitsch, E.
THE PATHOLOGY OF THE METABOLISM IN THE PRESENCE OF LEAD POISIONING OF THE ORGANISM. IV. THE INFLUENCE OF HYDROCHLORIC ACID UPON THE ALTERATION OF THE PHOSPHORUS AND CALCIUM METABOLISM IN EXPERIMENTAL LEAD POISONING. 17p.
Order from SLA $1.60 TT-64-16241

Trans. of Arch[iv] f[ür] Gewerbepath[ologie und Gewerbehygiene] (Germany) 1931, v. 2, p. 56-[70].

LIOTHRONIN, A NEW HUNGARIAN DRUG. 22 Jul 64, 2p JPRS: 25544.
Order from OTS HC $0.50 MF $0.50 TT-64-31816

Trans. of Orvosi Hetilap (Hungary) 1964, v. 105, no. 21, p. 1008.

Angelino, P. F. and Vacca, G.
HEMOCHROMATOSIS: CLINICAL CONTRIBUTION AND NEW CHELATING THERAPY (L'Emocromatosi: Contributo Clinico e Nuova Terapia Chelante). [10p] 10refs
Order from SLA $1.10 TT-64-18146

Trans. of Minerva Med[ica] (Italy) 1963, v. 54 [no. 49] p. 1849-1854.

Angelino, P. F., Ferro, G. F., Vacca, G., and Medici, L.
CHELATING THERAPY OF HEMOCHROMATOSIS WITH PERORAL AND PARENTERAL DESFERRIOXAMINE (La Terapia Chelante dell' Emocromatosi con Desferrioxamina per via Orale e Parenterale). 7p 6refs.
Order from SLA $1.10 TT-64-18143

Trans. of Minerva Med[ica] (Italy) 1964, v. 55 [no. 3/4] p. 75-77.

Bishara, E. I., Lazareva, E. N., and Eidel'stein, S. I.
DRUG RESEARCH IN THE USSR: EKMOLIN SALT OF PHENOXYMETHYLPENICILLIN [AND] SYMPOSIUM ON AEROSOLS [MOSCOW, 1963]. 31 Jul 64, 13p 6refs
JPRS: 25686.
Order from OTS HC $1.00 MF $0.50 TT-64-31958

Trans. of #Antibietiki (USSR) 1964, v. 9, no. 5, p. 403-408, 472-475.

Böhme, H. and Teltz, H. -P.
THE PROBLEMS OF MELTING POINT DETERMINATION IN A NEW PHARMACOPEIA (Zur Frage der Schmelzpunktsbestimmiung in einem Neuen Arzneibuch). [13p] (foreign text included) 17refs.
Order from SLA $1.60 TT-64-16943

Trans. of Deut[sche] Apotheker Z[eitung] (West Germany) 1955, v. 95 [no. 7] p. 153-157.

Brard, M. D.
TOXICOLOGIC STUDY OF SEVERAL CHROMIUM COMPOUNDS. PT 1. ACUTE INTOXICATIONS. PT II. CHRONIC INTOXICATION. 47p 33refs
Order from SLA $4.60 TT-64-16208

Trans. of Journal de Pharmacie et de Chimie (France) 1934 [ser. 8] v. 20, p. 549-576, 1935 [ser. 8] v. 21, p. 5-23.

Chumakova, M. Ya., Avgustinovich, G. I., and Zavodova, T. I.
ANTIBODIES AGAINST SV_{40} IN MONKEYS OF VARIOUS SPECIES
P. DePorte, tr. 27 May 64, 7p 15refs NIH no. 5-34-64.
Order from OTS, or ETC HC $1.00, MF $0.50 TT-64-19344

Trans. of #Voprosy Virusologii (USSR) 1963 [v. 8] no. 4, p. 452-456

Forni, P. V. and Guidetti, E.
GOLIMYCIN: TOXICOLOGY, PHYSIOPATHOLOGY AND MICROBIOLOGY. 14p 7refs.
Order from SLA $1.60 TT-64-18736

Trans. of Minerva Medica (Italy) 1956, v. 47, no. 77, suppl., p. 823-827.

Gusenkov, P. V.
PROSPECTS OF THE DEVELOPMENT OF THE CHEMICOPHARMACEUTICAL INDUSTRY IN THE USSR. 29 Jul 64, 14p JPRS: 25635.
Order from OTS HC $1.00 MF $0.50 TT-64-31907

Trans. of Meditsinskaya Promyshlennost' SSSR, 1964, v. 18, no. 4, p. 6-15.

Hazard, R., Beauvallet, M., Giudicelli, R., and Mouillé, P.
ACTION OF THE MONOACINOXIDASE INHIBITORS ON THE VASCULAR EFFECTS OF EPINEPHRINE, NOREPINEPHRINE, ISOPRENALINE AND 3,4-DIOXY-EPHEDRINE IN NORMAL DOGS OR THOSE TREATED WITH NAPHAZOLINE (Action des Inhibiteurs de la Monoamine Oxydase sur les Effets Vasculaires de l' Adrénaline, de la Noradrénaline, de l' Isoprénaline et de la Dioxy-3,4 Éphédrine chez le Chien Normal ou Traité par la Naphtazoline). 9p 9refs.
Order from SLA $1.10 TT-64-16852

Trans. of Med[icina] Exp[erimentalis] (Switzerland) 1963, v. 8 [no. 4/6] p. 228-236.

Heinemann, B.
PROCESS FOR THE PREPARATION OF A CRYSTALLINE TETRACYCLINE CALCIUM CHLORIDE COMPLEX. [5p].
Available on loan from SLA TT-64-18820

Trans. of German patent 1,159,936, by Bristol-Myers, filed 27 Dec 63.

Holzmann, H.
USE OF DESFERRIOXAMINE IN PORPHYRIA CUTANEA TARDA (Zur Verwendung von Desferrioxamin bei Porphyria Cutanea Tarda). 8p.
Order from SLA $1.10 TT-64-18139

Trans. of Med[izinische] Welt (West Germany) 1963 [no. 19] p. 1078-1081.

Ibragimov, F. I. and Ibragimova, V. S.
PRINCIPAL REMEDIES OF CHINESE MEDICINE.
4 Jun 64 [431p] (figs omitted) FTD-TT-63-815; AD-603 010.
Order from OTS HC $7.35, MF $2.00 TT-64-71141

Unedited rough draft trans. of mono. Osnovnye Lekarstvennye Sredstva Kitaiskoi Meditsiny, Moscow, 1960, 411p

Ioffe, A. Z., Yatskevichyus, A. S., and Eshmanaite, N. A.
ANTIBIOTIC ACTION OF CERTAIN PENICILLIUM FUNGI ON STAPHYLOCOCCUS IN VITRO AND IN VIVO.
6 Jul 64, 10p JPRS: 25357.
Order from OTS HC $0.50 MF $0.50 TT-64-31630

Trans. of Akademiya Nauk Litovskoi SSR, Vilna. Institut Eksperimental'noi Meditsiny. Trudy, 1958, v. 4/5, p. 183-191.

Jores, J. and Kracht, J.
EFFECT OF SULFONYLUREA COMPOUNDS ON THE RATE OF MITOSIS OF BETA CELLS IN THE PANCREATIC ISLETS. 13p 16refs.
Order from SLA $1.60 TT-64-18413

Trans. of Acta Endocrinologica (Denmark) 1959, v. 32 [no. 2] p. 243-254.
An abstract trans. is available from SLA $1.10 as TT-64-16289, 1p.

Kühnau, J., Jr. and Strytzky, A. von.
SUCCESSFUL TREATMENT OF INSULIN RESISTENCE IN DIABETES MELLITUS WITH PORK-INSULIN (Mit Schweineinsulin Erfolgreich Behandelte Insulin-Resistenz bei Diabetes Mellitus). [11 p] (foreign text included) 36refs.
Order from SLA $1.60 TT-64-16832

Trans. of Schweiz[erische] Med[izinische] W[ochen]schr[ift] 1963, v. 93 [no. 25] p. 914-918.

Kung, V.
EFFECT OF THE BIOLOGICALLY ACTIVE DRUG "HUMIZOL" UPON THE PHAGOCYTIC (MACROPHAGIC) DEFENSE REACTION OF THE ORGANISM AND UPON THE REACTIVE PROLIFERATION OF CONNECTING TISSUE. 17 Jul 64, 14p 20refs JPRS: 25505.
Order from OTS HC $0.50 MF $0.50 TT-64-31777

Trans. of Akademiya Nauk Estonskoi SSR, Tallinn. Izvestiya. Seriya Biologicheskaya, 1964, v. 13, no. 1, p. 3-9.

Mesarskii, N. K.
A COMPARATIVE STUDY OF LYOPHILIZED TYPHOID VACCINES OBTAINED BY VARIOUS METHODS
J. Chapin, tr. 27 May 64, 8p 2refs NIH no. 5-33-64.
Order from OTS or ETC HC $1.00, MF $0.50 TT-64-19343

Trans. of #Zhurnal Mikrobiol[ogii] Epid[emiologii i] Immunobiol[ogii] (USSR) 1963 [v. 40] no. 8, p. 24-29.

Mikhailov, V. V. and Teplyi, D. L.
THE TOXICITY OF BLUE-GREEN ALGAE OF THE VOLGA RIVER (O Toksichnosti Sine-Zelenykh Vodoroslei Reki Volgi)
G. Belkov, tr. 1964, 8p 7refs NRC Technical Trans. 1133.
Order from NRC $0.50 NRC C-49

Trans. of Zoologicheskii Zhurnal (USSR) 1961, v. 40, no. 11, p. 1619-1623.

Mikhel'son, M. Ya., ed.
THE PHYSIOLOGICAL ROLE OF ACETYLCHOLINE AND THE SEARCH FOR NEW MEDICINAL DRUGS.
17 Apr 64, 656p 421refs JPRS: 24236.
Order from OTS HC $7.50 MF $3.00 TT-64-31091

Trans. of mono. Fiziologicheskaya Rol' Atsetilkholina i Izyskanie Novykh Lekarstvennykh Veshchestv, Leningrad, 1957, 462p.
Another trans. of p. 25-33 is available from OTS $1.00 as TT-61-28831 [1961] 9p.

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

Monteil, R. G., Soussan Rouvelou, J.-L., Reynier, C. E., Morel, C. A., and Pantin, J. L.
CONSIDERATION OF A LOGICAL USE OF ANTIBIOTICS IN LOCAL TREATMENT OF BURNS (Essai d'un Emploi Logique des Antibiotiques dans le Traitement Local des Brûlures). 14p 19refs.
Order from SLA $1.60 TT-64-18738

Trans. of la Presse Médicale (France) 1963, v. 71 [no. 43] p. 2025-2027.

Muscholl, E.
GUANETHIDINE, A POST-GANGLIONIC SYMPATHETIC INHIBITOR (Guanethidin, ein Postganglionärer Sympathischer Hemmstoff). 7p (5 figs omitted) 56refs.
Order from SLA $1.10 TT-64-16858

Trans. of Deutsch[e] Med[izinische] W[ochen]schr[ift] (West Germany) 1963, v. 88 [no. 10] p. 485-490.

Pai, Jung-sen, Shih, Yen-chen, Chang, Tse-wei, Jen, Ping-chun, and Fan, Te-hou.
THE TREATMENT OF HEMOPHILIA AND HEMOPHILIA-LIKE DISORDERS WITH PEANUTS. 10 Aug 64, 3p JPRS: 25819 (p. 48-50)
Order from OTS HC $3.00 MF $0.75 in TT-64-41090 (p. 48-50)

Trans. (excerpts) of Chung Hua Nei K'o Tsa Chih (Chinese People's Republic) 1964, v. 12, no. 3, p. 245.

Rabe, Paul and Hagen, Gustave.
THE SYNTHESIS OF 6'-METHOXY-9-OXY-RUBANES, A CONTRIBUTION TO THE MODE OF ACTION OF QUININE AND QUINIDINE. Communication No. 32 on the Knowledge of the Cinchona Alkaloids. 6p.
Order from SLA $1.10 TT-64-18033

Partial trans. (p. 636-639) of [Chemische] Ber[ichte] (Germany) 1941, v. 74 [no. 4] p. 636-647.

Sanya, Akaboshi.
THE RADIOPROTECTIVE SUBSTANCES (CONCERNING CHEMICAL PROTECTORS). 29 Jul 64, 18p 100refs JPRS: 25633.
Order from OTS HC $1.00 MF $0.50 TT-64-31905

Trans. of Yakugaku Zasshi (Japan) 1963, v. 83, no. 11, p. 1005-1015.

Shabanova, I.
RECONSTRUCTION OF MOLECULES. 14 Jul 64 [4p] FTD-TT-64-581; AD-602 879.
Order from OTS HC$1.00, MF$0.50 TT-64-71133

Unedited rough draft trans. from Vechernaya Moskva (USSR) 1964, 12 Feb, p. 2.

Wöhler, F.
THE THERAPY OF HEMOCHROMATOSIS (Die Therapy der Hämochromatose). 20p 12refs.
Order from SLA $1.60 TT-64-18148

Trans. of Med[izinische] Klin[ik (West Germany) 1962. v. 57, no. 32, p. 1370-1376.

Radiobiology

Lanin, A. N. and Leites, F. L.
ON THE RELATION BETWEEN ARTERIAL PRESSURE CHANGES AND THE STATE OF CERTAIN REGULATING MECHANISMS IN THE EARLY PERIODS AFTER IONIZING RADIATION [AND] THE EFFECT OF WHOLE-BODY ALPHA-IRRADIATION ON LIPOLYTIC ENZYME INDUCTION BY CONNECTIVE TISSUE CELLS.
28 May 64 [22p] 21refs FTD-TT-64-329; AD-602 405.
Order from OTS HC $1.00, MF $0.50 TT-64-11893

Unedited rough draft trans. of Meditsinskaya Radiologiya (USSR) 1963, v. 8, no. 8, p. 42-48, 54-58.

Neumeister, K.
ORGANIZATION OF MEDICAL COUNTERMEASURES AGAINST RADIATION ACCIDENTS DUE TO EQUIPMENT DAMAGE OR BREAKDOWN. 20 Aug 64, 12p 16refs JPRS: 26021.
Order from OTS HC $1.00, MF $0.50 TT-64-41291

Trans. of das Deutsche Gesundheitswesen (East Germany, 1964 [v. 19] no. 28, p. 1293-1297.

Nuzhdin, N. I., Dozortseva, R. L., and Samokhvalova, N. S.
FREQUENCY OF CHROMOSOME ABERRATIONS AS A FUNCTION OF IRRADIATION INTENSITY AND PHYSIOLOGICAL CONDITION OF BARLEY SEEDS. [23p].
Order from OTS or ETC HC $2.00 AEC-tr-6112

Trans. of Akademiya Nauk SSSR. Izvestiya. Seriya Biologicheskaya, 1963 [v. 28] no. 4, p. 514-525.

Prokopchuk, A. Ya., Sosnovskii, A. T., Yagovdik, M. Z., and Orlova, Z. I.
DETERMINATION OF CERTAIN TRACE ELEMENTS IN RADIATION DERMATITES. 17 Jul 64, 13p 24refs JPRS: 25502.
Order from OTS HC $0.50 MF $0.50 TT-64-31774

Trans. of Akademiya Navuk BSSR, Minsk. Vestsi. Seryya Biyalagichnykh Navuk, 1964, no. 1, p. 92-96.

Silyaeva, M. F.
THE EFFECT OF FRACTIONAL X-RAY IRRADIATION ON THE ACTIVITY OF HEXOKINASE AND ALDOLASE OF THE BRAIN AND MUSCLE TISSUE OF RATS. 29 Jul 64, 15p 34refs JPRS: 25630.
Order from OTS HC $1.00 MF $0.50 TT-64-31902

Trans. of Akademiya Navuk BSSR, Minsk. Vestsi. Seryya Biyalagichnykh Navuk, 1964, no. 1, p. 101-106.

Zaitseva, K. K.
CERTAIN PROBLEMS OF BONE MARROW TRANSPLANTATION IN RADIATION AFFECTIONS. 6 Jul 64, 21p 158refs JPRS: 25350.
Order from OTS HC $0.75 MF $0.50 TT-64-31623

Trans. of Arkhiv Patologii (USSR) 1964, v. 26, no. 3, p. 3-15.

Surgery

Amosov, N. M.
SOME PROBLEMS IN THE THEORY OF ANESTHESIA. 10 Aug 64, 14p JPRS: 25793.
Order from OTS HC $1.00 MF $0.50 TT-64-41064

Trans. of Vestnik Khirurgii (USSR) 1963 [v. 90] no. 4, p. 73-82.

Krakovskii, N. I.
THE COURSE OF DEVELOPMENT OF PEDIATRIC SURGERY. 20 Aug 64, 2p JPRS: 26016.
Order from OTS HC $1.00 MF $0.50 TT-64-41286

Trans. of Zdravookhranenie Rossiiskoi Federatsii (USSR) 1964, v. 8, no. 5, p. 3-4.

Zoology

Aligadzhiev, G. A. and Salmanov, M. A.
EFFECT OF BENTHONIC FAUNA AND ZOOPLANKTON ON FISH SUPPLIES: ACCLIMATIZATION OF AZOV AND BLACK SEA FAUNA IN THE CASPIAN [AND] BACTERIAL GENERATION TIME AND CONSUMPTION BY ZOOPLANKTON IN KUIBYSHEV RESERVOIR. 10 Aug 64, 19p 33refs JPRS: 25815.
Order from OTS HC $1.00 MF $0.50 TT-64-41086

Trans. of Zoologicheskii Zhurnal (USSR) 1964, v. 43, no. 6, p. 801-807, 809-814.

Borutskii, E. V.
CRUSTACEA, VOL. III, NO. 4, FRESHWATER HARPACTICOIDA (Rakoobraznye: Harpacticoida Preshykh Vod)
A. Mercado, tr. 1964, 396p 373refs PL-480 Smi.
Order from OTS HC $4.00 TT-64-11026

Trans. of Fauna SSSR. [Novaya Seriya] 1952, v. 50 [425p].

Görner, Peter.
STUDIES IN THE MORPHOLOGY AND ELECTRO-PHYSIOLOGY OF THE LATERAL-LINE ORGAN OF THE CLAWED TOAD (XENOPUS LAEVIS DAUDIN).
44p 53refs.
Order from SLA $4.60 TT-64-16962

Trans. of Zeitschrift für Vergleichende Physiologie (West Germany) 1963, v. 47, p. 316-338.

Voskresenskaya, A. K.
NEURO-MUSCULAR FUNCTION IN INSECTS
R. E. Travers, tr. 1963, 248p 326refs.
Order from National Lending Library for Science and Technology, Boston Spa, England £3

Trans. of mono. Funktsional'nye Svoistva Nevro-Myshechnogo Pribora Nasekomykh, Moscow/Leningrad, 1959 [187p].

CHEMISTRY

EAST EUROPEAN SCIENTIFIC ABSTRACTS: CHEMISTRY NO. 36. 1 Jul 64, 25p JPRS: 25326.
Order from OTS HC $0.75, MF $0.50 TT-64-31599

Consists of abstracts of articles from the scientific and technical journals of Bulgaria, East Germany, and Rumania.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: CHEMISTRY NO. 37. 7 Jul 64, 5p JPRS: 25367.
Order from OTS HC $0.50 MF $0.50 TT-64-31640

Abstract tans. of Magyar Kemiai Folyoirat (Hungary) 1964, v. 70, no. 5, p. 191-233.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: CHEMISTRY NO. 38. 9 Jul 64, 13p JPRS: 25404.
Order from OTS HC $0.50 MF $0.50 TT-64-31677

Abstracts trans. of Roczniki Chemii (Poland) 1964, v. 38, no. 4, p. 527-710.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: CHEMISTRY NO. 39. 13 Jul 64, 27p JPRS: 25442.
Order from OTS HC $0.75 MF $0.50 TT-64-31715

Abstract trans. of Zeitschrift für Anorganische und Allgemeine Chemie (East Germany) 1964, v. 328, no. 1/2, p. 1-112; 5/6, p. 219-318; v. 329, no. 1/6, p. 3-308.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: CHEMISTRY NO. 40. 22 Jul 64, 10p JPRS: 25541.
Order from OTS HC $0.50 MF $0.50 TT-64-31813

Consists of abstracts of articles from the scientific and technical journals of Hungary.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: CHEMISTRY NO. 41. 27 Jul 64, 16p JPRS: 25597.
Order from OTS HC $1.00 MF $0.50 TT-64-31869

Consists of abstracts of articles from selected scientific and technical journals of Czechoslovakia and East Germany.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: CHEMISTRY NO. 43. 11 Aug 64, 13p JPRS: 25848.
Order from OTS HC $1.00, MF $0.50 TT-64-41119

Abstract trans. of Magyar Tudomanyos Akademia Kemiai Tudomanyok Osztalyanak Kozlemenyei (Hungary) 1964, v. 21, no. 3, p. 253-275, 277-311, 313-355; no. 4, p. 357-373, 375-383, 385-399, 401-453, 455-467, 469-476.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: CHEMISTRY NO. 44. 13 Aug 64, 20p JPRS: 25910.
Order from HC $1.00, MF $0.50 TT-64-41181

Abstract trans. of Chemicke Zvesti (Czechoslovakia) 1964, v. 18, no. 5/6, p. 313-464; Magyar Kemiai Folyoirat (Hungary) 1964, v. 70, no. 6, p. 235-280.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: CHEMISTRY NO. 45. 19 Aug 64, 9p JPRS: 25970.
Order from OTS HC $1.00 MF $0.50 TT-64-41241

Abstract trans. of Acta Chimica (Hungary) 1964, v. 40, no. 1, p. 1-7, 9-29, 31-73, 75-77, 79-97; Magyar Kemikusok Lapja (Hungary) 1964, v. 19, no. 6, p. 289-308, 321-333.

USSR SCIENTIFIC ABSTRACTS: CHEMISTRY AND METALLURGY NO. 13. 4 Aug 64, 138p JPRS: 25713.
Order from OTS HC $4.00 MF $1.00 TT-64-31985

Consists of abstracts of articles from USSR scientific and technical journals.

Stephen, H. and Stephen T., eds.,
SOLUBILITIES OF INORGANIC AND ORGANIC COMPOUNDS. VOL. 2, PT. 1. TERNARY SYSTEMS. 1964, 943p.
Order from MACM

Trans. of mono. [Spravochnik po Rastvorimosti: Troinye Mnogokomponentnye Sistemy (Handbook on Solubility: Ternary Multicomponent Systems) v. 2, pt. 1, Moscow, 1963, 943p].

Analytical Chemistry

Goto, Eiji.
ON ZIRCONIUM CRUCIBLES FOR CHEMICAL ANALYSIS. 30p (8 refs omitted) 10refs.
Order from SLA $2.60 TT-64-18544

Trans. of Bunseki Kagaku (Japan) 1964, v. 13, no. 3, p. 282-288.

Körbl, Jiri and Komers, Radko.
ORGANOSILICON COMPOUNDS. VIII. DETERMINATION OF CARBON AND HYDROGEN IN ORGANOSILICON COMPOUNDS. 16p (5 figs omitted) 21refs.
Order from SLA $1.60 TT-64-18372

Trans. of Chem[icke] Listy (Czechoslovakia) 1956, v. 50 [no. 7] p. 1120-1125.
Other translations are available from SLA mi$2.40. ph$3.30 as TT-59-15733 [19p] and from K-H $16.00 as K-H 5577a, 16p.
(Also pub. in Sbornik Chekhoslovatskykh Khimicheskykh Rabot, 1957, v. 22, p. 222-229).

Kuznetsov, V. I.
METHYL VIOLET DYE (M.V.) - SULFOCYANIDE COLOR REACTION FOR ZINC. 4p 12refs.
Order from SLA $1.10 TT-64-18514

Trans. of Zhurn[al] Analit[icheskoi] Khimii (USSR) 1947, v. 2, no. 6, p. 373-376.

Martin, F. and Floret, A.
APPARATUS FOR FAST COMBUSTION OF VOLATILE ORGANIC LIQUIDS FOR DETERMINATION OF SULFURATED OR HALOGENATED IMPURITIES. [20p].
Order from SLA $1.60 TT-64-16326

Trans. of manuscript later published in Chimie Analytique (France) 1958, v. 40, no. 4, p. 120-126.
Trans. of [published paper] is available from ATS $11.95 as ATS-45K26F (13)p.

Pyriki, Constantin and Hofmann, Frank.
PARAFFIN HYDROCARBONS IN TOBACCO. 55p 46refs.
Order from SLA $5.60 TT-64-18060

Trans. of Inst[itut für] Tabakforsch[ung]. Ber[ichte] (East Germany) 1963, v. 10, no. 1, p. 69-106.

Ryabchikov, D. I. and Gol'braikh, Evgeniya Kas'yanovna.
THE ANALYTICAL CHEMISTRY OF THORIUM. International Series of Monographs on Analytical Chemistry, v. 10.
A. D. Norris, tr. 1964, 316p.
Order from MACM $14.00

Trans. of mono. [Analiticheskaya Khimiya Toriya, Moscow, 1960, 295p].

Sanisonov, G. V., Pilipenko, A. T. and others.
ANALYSIS OF HIGH-MELTING COMPOUNDS.
17 Jun 64 [349p] 327refs FTD-TT-63-814; AD-603 009.
Order from OTS HC $7.00, MF $1.75 TT-64-71140

Unedited rough draft trans. of mono. Analiz Tugoplavkikh Soedinenii, Moscow, 1962, 256p.

Takayama, Yuji.
DETERMINATION OF BENZOYL PEROXIDE IN POLYMETHYL METHACRYLATE. REPT. 2. ULTRAVIOLET ABSORPTION SPECTROMETRY. 5p (12 figs 2 tables omitted).
Order from SLA $1.10 TT-64-18128

Trans. of Bunseki Kagaku (Japan) 1955, v. 4, [no. 5] p. 290-293.

Takayama, Yuji and Doi, Kinuko.
DETERMINATION OF BENZOYL PEROXIDE IN POLYMETHYL METHACRYLATE. REPT. 3. COLORIMETRY. 6p (6 figs, 5 tables and 3 refs omitted) 3refs
Order from SLA $1.10 TT-64-18550

Trans. of Bunseki Kagaku (Japan) 1955, v. 4, no. 6, p. 349-353.

Teng, Chia-c'hi and Ch'en, Wen-shu.
POLYVINYL ALCOHOL AS A POLAROGRAPHIC MAXIMUM SURPRESSOR. 15 JUN 64, 34p 5refs JPRS: 25070 (p. 11-18).
Order from OTS HC $1.00 MF $0.50 in TT-64-31475 (p. 11-18)

Trans. of Hua Hsüeh T'ung Pao (Chinese People's Republic) 1964, no. 2, p. 53-55.

Tso, Tsung-c'hi, I, Jui-shih, and Tso, Ya-ning.
PAPER ELECTROCHROMATOGRAPHY OF SELENIUM AND TELLURIUM. 15 Jun 64, 7p 6refs JPRS: 25070 (p. 19-25).
Order from OTS HC $1.00 MF $0.50 in TT-64-31475 (p. 19-25)

Trans. of Hua Hsüeh T'ung Pao (Chinese People's Republic) 1964, no. 2, p. 55-56.

Wickbold, R.
DETERMINATION OF SULFUR-AND CHLORINE-TRACES IN ORGANIC SUBSTANCES. 7p. (4 refs omitted).
Order from SLA $1.10 TT-64-18100

Trans. of Angew[andte] Chem[ie] (West Germany) 1957, v. 69 [no. 16] p. 530-533.
Another trans. is available from SLA $1.60 as TT-64-10178, 16p.

Glemser, O. and Rieck, G.
THE USE OF IRON OXIDES FOR CHROMATOGRAPHIC ADSORPTION. 5p 6refs.
Order from SLA $1.10 TT-64-16824

Trans. of Angewandte Chemie (West Germany) 1957, v. 69 [no. 3] p. 91-93.

Inorganic Chemistry

PRODUCTION OF HYDROCHLORIC ACID. 5p.
Order from SLA $1.10 TT-64-18853

Trans. of German patent application I 78,103 IVb/12i, by I. G. Farbenindustrie A. G., Leverkusen, n.d.

Cambi, Livio.
SILICON SULFIDES, NOTE 2. 12p (6 refs omitted) 9refs.
Order from SLA $1.60 TT-64-16712

Trans. of Accademia [Nazionale] dei Lincei. Atti. [Classe di Scienze Fisiche, Matematiche e Naturali. Rendiconti] (Italy) 1911 [ser. 5] v. 20, p. 433-440.

Faust, O. and Esselmann, P.
THE SYSTEM OF SULFURIC ACID, SODIUM SULFATE AND WATER. 3p (1 fig 5 tables 7 refs omitted).
Order from SLA $1.10 TT-64-18169

Trans. of Z[eitschrift für] Anorg[anische und Allgemeine] Chem[ie] (Germany) 1926, v. 157 [no. 1/3] p. 290-298.

Fleury, Paul.
A PROCESS FOR THE MANUFACTURE OF SYNTHETIC CRYOLITE. 8p.
Available on loan from SLA TT-64-18486

Trans. of French patent 876,558, cl. 4, gr. 1, by Union Francaise & Compagnies Regionales Reunies de Fabriques d'Engrais et de Produits Chimiques, France, appl. 3 Nov 41, issued 10 Aug 42, pub. 10 Nov 42.

Katsumata, Shigeru, Tokumoto, Akitoshi, and Yagi, Ichiro.
DECOMPOSITION OF MONAZITE CONCENTRATE BY SODIUM HYDROXIDE. 10p 5refs.
Order from SLA $1.10 TT-64-18102

Trans. of [Kogyo Kagaku Zasshi (Japan) 1963, v. 66, no. 3, p. 324-326].

Rapoport, I. B., Flid, R. M., and Lis, K.
ON ISOBUTYLENE POLYMERIZATION AND CYCLIZATION REACTIONS. 7p 6refs.
Order from SLA $1.10 TT-64-18806

Trans. of Akad[emiya] Nauk SSSR. Dokl[ady] 1957, v. 116, no. 2, p. 244-[247].

Rossi, A. and Iandelli, A.
THE CHEMICAL STRUCTURE OF PrMg. 2p (2 tables formulae refs omitted).
Order from SLA $1.10 TT-64-16715

Trans. of Accad[emia] Naz[ionale dei] Lincei. Atti. [Classe di Scienze Fisiche, Matematiche e Naturali. Rendiconti] (Italy) 1933 [ser. 6] v. 18, p. 156-[161].

Rossi, A. and Iandelli, A.
THE CRYSTAL STRUCTURE OF $LaMg_3$, $CeMg_3$, and $PrMg_3$. 2p (1 fig 3 tables formulae footnotes refs omitted).
Order from SLA $1.10 TT-64-16716

Trans. of Accad[emia] Naz[ionale dei] Lincei. Atti. [Classe di Scienze Fisiche, Matematiche e Naturali. Rendiconti] (Italy) 1934 [ser. 6] v. 19, p. 415-[420].

Smolensky, S.
DISILICATES AND TITANATES. 3p 2refs.
Order from SLA $1.10 TT-64-18271

Partial trans. (p. 293-298) of Z[eitschrift für] Anorg[anische und Allgemeine] Chem[ie] (Germany) 1912, v. 73 [no. 3] p. 293-303.

Strathmeyer, Walter.
PRODUCTION OF CRYOLITE. 4p.
Available on loan from SLA TT-64-18489

Trans. of German patent 646,109, cl. 12i, gr. 10 by I. G. Farbenindustrie Aktiengesellschaft, Frankfurt/M, appl. I62740 IV/12i, filed 7 July 36, granted 20 May 37, pub. 8 June 37.

Takizaki, Kiyoo, Matsujima, Hidetaro, and Kawano, Toshio.
PREPARATION METHOD FOR ACIDIC AMMONIUM FLUORIDE. 6p.
Order from SLA $1.10 TT-64-18490

Trans. of Japanese patent publication Showa 26-5979, 8 Oct 51, cl. 15 L 23, by Nitto Chemical Industry Co., Ltd., Tokyo (Patent appl. Showa 25-7442, 7 May 50).

Wallace, Robert C.
ON THE BINARY SYSTEMS OF THE SODIUM META-SILICATES WITH LITHIUM MAGNESIUM, CALCIUM, STRONTIUM, AND BARIUM META-SILICATE; THE LITHIUM META-SILICATES WITH POTASSIUM, MAGNESIUM, CALCIUM, STRONTIUM, AND BARJUM META-SILICATE: AND ON THE THREE COMPONENT SYSTEM Na_2O - Al_2O_3 - SiO_2. [26p] 20refs.
Order from SLA $2.60 TT-64-18213

Condensed trans. of Z[eitschrift fu'r] Anorg[anische und Allgemeine] Chemie (Germany) 1909, v. 63 [no. 1] p. 1-48.

Wiberg, Egon and Schmidt, Max.
HALOGENATED DERIVATIVES OF ALUMINUM HYDRIDE AlH_3. PT I. IODO DERIVATIVES--MONOIODOALANE AlH_2I AND DIIODOALANE $AlHI_2$. 3p (1 ref 1 footnote omitted).
Order from SLA $1.10 TT-64-16771

Trans. of Z[eitschrift für] Naturforsch[un]g (West Germany) 1951, v. 6 b [no. 8] p. 458-459.
Another trans. is available from SLA as no. 2955 (2)p.

Wojnewski, W. and others.
DIRECT METHOD OF PRODUCTION OF SILICON DISULPHIDE. Jul 64.
Order from TTIS $6.30 TTIS NS 231

Trans. of Polish patent 47,240, appl. 21 May 62, pub. 15 Aug 63.

Organic Chemistry

PROCESS FOR PREPARATION OF A 7-DEHYDROSTEROL. 3p.
Order from SLA $1.10 TT-64-18461

Trans. of Swiss patent 194,451, n.d.

PROCESS FOR PREPARATION OF A 7-DEHYDROSTEROL. 2p.
Order from SLA $1.10 TT-64-18460

Trans. of Swiss patent 201,169, suppl. to patent 194,451, n.d.

PROCESS FOR PREPARATION OF A 7-DEHYDROSTEROL. 3p.
Order from SLA $1.10 TT-64-18459

Trans. of Swiss patent 201,834, suppl. to patent 194,451, n.d.

PROCESS FOR PREPARATION OF ALDEHYDE OR KETONE CONDENSATION PRODUCTS USING 2-CYANO-3-METHYL-CROTONIC ACID OR ITS FUNCTIONAL DERIVATIVES. [11p].
Available on loan from SLA TT-64-18821

Trans. of Belgian patent 624,020, by N. V. Philips' Gloeilampenfabrik, n.d. (Priority: Netherlands, filed 26 Oct 61).

PROCESS FOR PREPARATION OF BARBITURIC ACID DERIVATIVES. 2p.
Order from SLA $1.10 TT-64-18463

Trans. of Swiss patent 169,179, filed 1 Aug 34.

PROCESS FOR PREPARATION OF PANTOTHENIC ACID. 3p.
Order from SLA $1.10 TT-64-18457

Trans. of Swiss patent 227,120, by I. G. Farbenindustrie A. G., Ludwigshafen, filed 2 Aug 43.

PROCESS FOR THE PREPARATION OF PANTOTHENIC ACID. 2p.
Order from SLA $1.10 TT-64-18456

Trans. of Swiss patent 236,383, by I. G. Farbenindustrie A. G., Ludwigshafen, filed 16 June 45.

PROCESS FOR PREPARATION OF QUINACRIDONES INSOLUBLE IN WATER AND FREE FROM SULFONIC ACID GROUPS. 9p
Order from SLA $1.10 TT-64-18481

Trans. of French patent 1,226,260, by CIBA, filed 3 June 59, granted 22 Feb 60, pub. 11 July 60 (Priority: Switzerland, applied 11 June 58).

PROCESS FOR PREPARING POLYCYCLIC DIAMINES. 5p.
Order from SLA $1.10 TT-64-18114

Trans. of French patent 1,345,138, by E. I. du Pont de Nemours and Co., U. S., file no. 913,482, 26 Nov 62, pub. 28 Oct 63 (Bulletin Officiel de la Propriété Industrielle, 1963; no. 49) (U. S. Priority: 26 Oct 61, no. 147,728, in the name of Jame C. Kauer).

A PROCESS FOR THE PRODUCTION OF DIBENZYL TIN OXIDE. Jul 64.
Order from TTIS $5.40 TTIS NS 232

Trans. of Polish patent 47,979, appl. 30 May 62, pub. 10 Feb 64, by Instytut Prremyslu Organicznego.

PROCESS OF PRODUCTION OF DIMERS AND POLYMERS OF ALPHA-OLEFIN COMPOUNDS. 23p.
Order from SLA $2.60 TT-64-18591

Trans. of French patent 1,229,702, international cl. C 07 c C 08 f, by E. I. Du Pont de Nemours & Co., U. S. filed 23 Dec 58 as 782,661, granted 28 Mar 60, pub. 9 Sep 60 (U. S. Priority: U. S., 24 Dec 57, in the name of Thomas Alderson).

PROCESS FOR SULFONATION OF FATTY ESTERS. 2p. Order from SLA $1.10 TT-64-18040

Trans. of German patent 721,991, pub.8 Sep 38.

Ajisaka, Eiichi and Yoshida, Soshihiko.
A PROCESS FOR MANUFACTURE OF PARAFORMALDEHYDE OF HIGH FORMALDEHYDE CONTENTS. 7p.
Order from SA $16.00 SA Code P-352

Trans. of published Japanese patent 16,457, cl. 16 B 511 11, appl. no. 29843/1960, filed 3 Jun 60, pub. 30 Aug 63, by Japan Catalyst Chemical Industry Co., Ltd.

Androva, N. A., Koton, M. M., Panov, Yu. N., and Floryuski, F. S.
SCINTILLATION ACTIVITY IN FLUORESCENCE AS RELATED TO CHEMICAL STRUCTURE. 5p 4refs.
Order from SLA $1.10 TT-64-18510

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1957, v. 114 [no. 2] p. 311-[313].
Another trans. is available from LC or SLA mi$1.80, ph$1.80 as TT-60-13047, CTS-451, 5p.

Arlman, E. J.
DISTRIBUTION OF POLYMERS IN POLYMERIZATION PRODUCTS (Polymeerverdeling in Polymerisatieproducten). [18p] (foreign text included) 3refs.
Order from SLA $1.60 TT-64-18857

Trans. of Chemisch Weekblad (Netherlands) 1952, v. 48 [no. 16] p. 237-242.

Beears, Werber, Jansen, and Gresham.
PROCESS FOR THE PREPARATION OF ESTERS. 15p.
Order from SLA $1.60 TT-64-18048

Trans. of German patent 1,005,947, by B. F. Goodrich Co., U. S., pub. 11 Apr 57.

Bell, L. H., Morozov, Yu. V., and Kuklin, A. I.
PHOTOSYNTHESIS AND RADIATIVE TRANSITIONS: THE THERMODYNAMICS OF PHOTOSYNTHESIS [AND] DETERMINATION OF THE PROBABILITY OF SINGLET-SINGLET-TRIPLET TRANSITIONS IN MOLECULES POSSESING A CONJUGATE SYSTEM OF -ELECTRONS. 5 Aug 64, 21p 16refs JPRS: 25733.
Order from OTS HC $1.00 MF $0.50 TT-64-41004

Trans. of #Biofizika (USSR) 1964, v. 9, no. 3, p. 293-305.

Berezin, I. V., Dzantiev, B. G., Kazanskaya, N. F., Sinochkina, L. N., and Emanual', N. M.
INTERMEDIATE REACTIONS OF CYCLOHEXYL HYDROPEROXIDE, CYCLOHEXANOL, AND CYCLOHEXANONE DURING THE OXIDATION OF CYCLOHEXANE IN A GLASS REACTOR. 12p 5refs.
Order from SLA $1.10 TT-64-18410

Trans. of Zhur[nal] Fiz[icheskoi] Khim[ii] (USSR) 1957, v. 31 [no. 3] p. 554-562.

Birckenbach, Lothar and Kraus, Karl.
ON THE REACTION OF THIOCYANIC ACID WITH CYANIC ACID AND ON CARBAMIC ACID-ISOTHIOCYANATE. 5p 11refs.
Order from SLA $1.10 TT-64-1802

[Condensed] trans. of [Chemische] Ber[ichte] (Germany) 1938, v. 71 [no. 7] p. 1492-1497.

Blyumberg, E. A., Malievskii, A. D., and Emanuel', N. M.
EFFECT OF SOLVENTS ON THE MECHANISM OF LIQUID PHASE n-BUTANE OXIDATION. 8p 11refs.
Order from SLA $1.10 TT-64-18435

Trans. of Neftekhimiya (USSR) 1963, v. 3 [no. 4] p. 541-547.
Another trans. is available from ATS $13.75 as ATS-65R74R, 7p.

Bohlmann, F.
STRUCTURE AND REACTIVITY OF THE ACETYLENE BOND. 10p 22refs.
Order from SLA $1.10 TT-64-16819

Trans. of Angew[andte] Chemie (West Germany) 1957, v. 69 [no. 3] p. 82-86.

Bonitz, Eckhard.
ORGANOALUMINUM COMPOUNDS. 21p 18refs.
Order from SLA $2.60 TT-64-18505

Trans. of Chemische Berichte (West Germany) 1955, v. 88 [no. 6] p. 742-763.

Bourdais, Jacques.
COPOLYMERIZATION OF SODIUM VINYL-SULFONATE. 3p 4refs.
Order from SLA $1.10 TT-64-18804

Trans. of [Academie des Sciences, Paris] Comptes Rendus (France) 1958, v. 246 [no. 16] p. 2374-2377 (pub. by Gauthier-Villars et Cie., Paris).

Bresler, L. S., Dolgoplosk, B. A., Kropacheva, E. N., Nelson, K. V., and Nikitina, A. P.
STUDY OF 1, 3-BUTADIENE COPOLYMERIZATION PROCESS WITH 2, 3-DIMETHYL-BUTADIENE-1, 3 IN THE PRESENCE OF DIFFERENT IONIC TYPE CATALYSTS. 7p 12refs.
Order from SLA $1.10 TT-64-16979

Trans. of Akad[emiya] Nauk SSSR. Dokl[ady] 1963, v. 151, no. 6. p. 1322-1325.

Burmistrov, S. I. and Sukhoruchkin, Yu. V.
METHOD FOR PREPARING MONO- AND DIALKYL-SUBSTITUTED GUANIDINES. 3p
Order from SLA $1.10 TT-64-18479

Trans. of Russian patent 156,550, 1963.

Cambi, L. and Cagnasso, A.
DITHIOCARBAMATES AND NITROSODITHIOCARBAMATES OF IRON. 7p 4refs.
Order from SLA $1.10 TT-64-16714

Trans. of Accad[emia] Naz[ionale dei] Lincei. Atti. [Classe di Scienze Fisiche, Matematiche e Naturali. Rendiconti] (Italy) 1931 [ser. 6] v. 13, p. 809-813.

Chang, Jen-en.
GAS CHROMATOGRAPHIC ANALYSIS OF TETRACHLORO-ALKANE. 22 Jun 64, 12p 4refs
JPRS: 25191 (p. 1-12).
Order from OTS HC $1.25 MF $0.50 in TT-64-31535 (p. 1-12)

Trans. of Hua Hsüeh T'ung Pao (Chinese People's Republic) 1964, no. 3, p. 55-58.

Chauvel, Alain, Clement, Genevieve, and Balaceanu, Jean-Claude.
LIQUID PHASE OXIDATION OF OLEFINS. II. COMPARATIVE OXIDATION OF BUTENE-1 AND 2. 23p 15refs.
Order from SLA $2.60 TT-64-18777

Trans. of Soc[iété] Chim[ique de] France. Bull[etin] 1963, no. 10, p. 2025-2034.

Dimroth, K. and Neubauer, G.
2,4,6-TRIPHENYLPHENOXYL, A NEW OXYGEN RADICAL STABILIZED BY MESOMERISM. 2p (1 footnote omitted) 4refs.
Order from SLA $1.10 TT-64-16825

Trans. of Angewandte Chemie (West Germany) 1957, v. 69 [no. 3] p. 95.

Eidus, Ya. T. and Ordyan, M. B.
ON CYCLOPENTENE METHYLATION WITH METHYL RADICALS FORMED IN CATALYTIC REDUCTION OF CARBON MONOXIDE BY HYDROGEN. 5p 7refs.
Order from SLA $1.10 TT-64-18795

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1957, v. 116, no. 1, p. 101-104.
Other translations are available from LC or SLA as TT-59-22345 [7p]; from SLA as R-5169 [7p]; from ATS as ATS-16K22R, 5p.

Feofilaktov, V. V. and Semenova, N. K.
REACTION OF AROMATIC DIAZO COMPOUNDS IN COUPLING WITH ALKYL ACETOACETIC ESTERS AS A METHOD OF PRODUCING ARYLHYDRAZIDES OF α-KETOACIDS, α-AMINOACIDS AND NITROGEN CONTAINING HETEROCYCLIC COMPOUNDS. XIV. INTERACTION OF THE DIETHYL ESTER OF α-ACETOGLUTARIC ACID AND CERTAIN OF ITS ANALOGS WITH ARYLDIAZONIUM COMPOUNDS. 12p 31refs.
Order from SLA $1.60 TT-64-18577

Partial trans. (p. 450-455) of [#Zhurnal Obshchei Khimii] (USSR) 1953, v. 23 [no. 3] p. 450-463.
A complete trans. is available from SLA $1.60 as TT-63-14634, 12p.

Fischer, E. O. and Hafner, W.
CONCERNING AROMATIC COMPLEXES OF METALS. III. PREPARATION OF DIBENZENE CHROMIUM. 3p 3refs.
Order from SLA $1.10 TT-64-18508

Trans. of Z[eitschrift für] Anorg[anische] u[nd] Allgem[eine] Chem[ie] (East Germany) 1956, v. 286 [no. 3/4] p. 146-148.

Fritz, H. P. and Fischer, E. O.
CONCERNING AROMATIC COMPLEXES OF METALS. IX. ON THE AROMATIC REACTION POSSIBILITIES OF DIBENZENE CHROMIUM AND DITOLUENE CHROMIUM. 3p (7 refs omitted).
Order from SLA $1.10 TT-64-18805

Trans. of Zeitschrift für Naturforschung (West Germany) 1957, v. 12b [no. 1] p. 67-68.

Garelli, F. and Racciu, G.
NEW SYNTHESIS OF PIPERAZINE AND DERIVATIVES (Nuova Sintesi della Piperazina e Derivati). [8 p] (foreign text included) 2refs.
Order from SLA $1.10 TT-64-16721

Trans. of Accademia delle Scienze di Torino. Classe di Scienze Fisiche, Matematiche e Naturali. Atti (Italy) 1934, v. 69, p. 162-165.

Germain, J. E. and Blanchard, M.
THE ISOMERIZATION OF BICYCLIC OLEFINS C_8H_{12} ON SILICONPHOSPHORIC CATALYST. 18p 20refs.
Order from SLA $1.60 TT-64-18443

Trans. of Soc[iété] Chim[ique] [de] France. Bull[etin] 1960, [no. 3] p. 473-481.

Gilt'burg, V., Zamyshlyaeva, A. M., and Krivich, S. S.
GOSSYPOL: PREPARATION OF GOSSYPOL HEXAPALMITATE [AND] THE INFRARED ABSORPTION SPECTRA OF GOSSYPOL DERIVATIVES. 1964, 16p 14refs PL-480 Agr.
Order from OTS HC $0.50 MF $0.50 TT-64-11078

Trans. of [Masloboino-Zhirovaya Promyshlennost'] (USSR) 1936, v. 12, p. 546-547; Zhurnal Obshchei Khimii (USSR) 1938, v. 8, no. 4, p. 319-329.

Granger, R., Nau, Pierre, F. G., and Nau, J.
STEREOCHEMISTRY OF BICYCLO-(3,3,0)OCTANE. IV. SUBSTITUTION REACTIONS IN THE CIS-BICYCLO-(3,3,0)OCTANE SERIES. 11p 12refs.
Order from SLA $1.60 TT-64-18444

Trans. of Soc[iété] Chim[ique de] France. Bull[etin] 1960 [no. 2] p. 217-221.

Habicht, E.
PROCESS FOR PREPARATION OF BENZTHIAZOLE DERIVATIVES. 9p 2refs.
Order from SLA $1.10 TT-64-18473

Trans. of German patent 1,097,994, by Cilag, filed 13 Feb 59, pub. 26 Jan 61.

Hart, R.
GRAFT AND BLOCK COPOLYMERS. PT. I (1). GRAFT COPOLYMERS. 20p.
Order from SLA $1.60 TT-64-16823

Trans. of Industrie Chimique Belge, 1956, v. 21 [no. 10] p. 1053-1063.

Hart, R.
GRAFT AND BLOCK COPOLYMERS, PT. II (2). BLOCK COPOLYMERS. 29p 323refs.
Order from SLA $2.60 TT-64-16817

Trans. of Industrie Chimique Belge, 1957, v. 22, no. 1, p. 39-51.

Henrici-Olivé, G. and Olivé, S.
REACTION KINETICS OF POLYMERIZATION INHIBITION BY MOLECULAR OXYGEN. 11p (2 refs omitted) 13refs.
Order from SLA $1.60 TT-64-18084

Trans. of Makromolekulare Chem[ie] (Switzerland) 1957, v. 24 [no. 1] p. 64-75.

Heyboer, J.
MECHANICAL PROPERTIES AND CHEMICAL STRUCTURE 19p (61 refs omitted).
Order from SLA $1.60 TT-64-18886

Trans. of Chemisch Weekblad (Netherlands) 1952, v. 48 [no. 16] p. 264-273.

Hugel, G.
SOME NEW TRENDS IN PETROLEUM CHEMISTRY. 7p.
Order from SLA $1.10 TT-64-18376

Trans. of [l']Industrie du Petrole (France) 1956, v. 24, no. 12, p. 46-47.

Imai, Kenji and Abe, Yukio.
METHOD OF MANUFACTURING TRIISOPENTYL ALUMINUM. 10p.
Order from SA $16.00 SA Code P-353

Trans. in manuscript of published Japanese patent 16880/1963, cl. 16-B-95, appl. no. 20212/1958, appl. 18 Jul 58, pub. 3 Sep 63, by Mitsui Chemical Industry Co., Ltd.

Jerchel, Dietrich, Heider, Joachim, and Wagner, Herbert.
INVESTIGATIONS CONCERNING THE REACTIVITY OF ALKYL GROUPS OF HETEROCYCLIC COMPOUNDS AND THEIR FUNCTIONAL DERIVATIVES. II. OXIDATION OF ALKYL-PYRIDINES AND ALKYL-QUINOLINES BY SELENIUM DIOXIDE. 19p 31refs.
Order from SLA $1.60 TT-64-18802

Trans. of Justus Liebigs] Annalen der Chemie (West Germany) 1958, v. 613 [no. 1/3] p. 153-170.

Kantyka, and Toyne.
PROCESS FOR REMOVAL OF IMPURITIES FROM REACTION SOLUTIONS OF CRUDE ORGANIC ISOCYANATES MADE BY PHOSGENATION OF PRIMARY AMINES IN INERT SOLVENTS. 5p 1ref.
Order from SLA $1.10 TT-64-18472

Trans. of German patent 1,133,721, by I. G. Farbenindustrie A. G., Ludwigshafen, filed 17 May 60, pub. 26 July 62.

Koch, Herbert.
CARBONIC ACIDS SYNTHESIS FROM OLEFINS, CARBONOXYD AND WATER. 20p 9refs.
Order from SLA $1.60 TT-64-16515

Trans. of Brenstoff-Chemie (West Germany) 1955, v. 36, [no. 21/22] p. 321-[328].
Another trans. is available from ATS $18.75 as ATS-88H8G.

Korshak, V. V. and Sergeev, V. A.
ON THE FORMATION OF POLYMERIZED HYDROCARBONS AT THE DECOMPOSITION OF ALIPHATIC AZOCOMPOUNDS. 5p 16refs.
Order from SLA $1.10 TT-64-18794

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1957, v. 115, no. 2, p. 308-311.
Other translations are available from LC or SLA mi$1.80, ph$1.80 ea. as TT-60-15573 and TT-59-22712.

Krebs, H., Diewald, J., and Wagner, J. A.
POSSIBILITIES OF CHROMATOGRAPHIC SPLITTING OF RACEMATES ON STARCH. 2p 3refs.
Order from SLA $1.10 TT-64-18545

Trans. of Angew[andte] Chem[ie] (West Germany) 1955, v. 67, no. 22, p. 705.

Kropachev, V. A., Dolgoplosk, B. A., and Nikolaev, N. I.
COMPLEX FORMATION AND CHAIN STRUCTURE IN POLYMERIZATION OF DIVINYL BY LITHIUMBUTYL. 3p 5refs.
Order from SLA $1.10 TT-64-18807

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1957, v. 115 [no. 3] p. 516-517.
Other translations are available from SLA $1.10 as TT-61-20629 [5p]; from LC or SLA mi$1.80, ph$1.80 as TT-60-13317, CTS-477 [4p]; from SLA as R-4245 [4p] and from ATS as ATS-6K20R [3p].

Lieser, Th. and Kemmner, Karl.
SYNTHETIC ORGANIC HIGH POLYMERS. PART VII. NEW ACRYLYL DERIVATIVES AND THEIR POLYMERIZATION PRODUCTS. 9p 5refs.
Order from SLA $1.10 TT-64-18851

Partial trans. (p. 4-8) in manuscript of Chemische Berichte (West Germany) 1951, v. 84 [no. 1] p. 4-12.

Ling, Yu-ch'en, T'ang, Ming-tao, and P'an, Hsi-che.
SEPARATION AND INFRA-RED IDENTIFICATION OF P-XYLENE. 15 Jun 64, 5p JPRS: 25070 (p. 6-10).
Order from OTS HC $1.00 MF $0.50 in TT-64-31475 (p. 6-10)

Trans. of Hua Hsüeh T'ung Pao (Chinese People's Republic) 1964, no. 2, p. 52-53.

Liu, Ch'eng-wen and Chou, Pi-cheng.
RAPID MICRODETERMINATION OF NITROGEN IN ORGANIC COMPOUNDS—SLEEVE TUBE FIRING METHOD. 22 Jun 64, 9p 11refs JPRS: 25191 (p. 13-21).
Order from OTS HC $1.25 MF $0.50 in TT-64-31535 (p. 13-21)

Trans. of Hua Hsüeh T'ung Pao (Chinese People's Republic) 1964, no. 3, p. 58-59, 62.

Losev, I. P. and Trostyanskaya, E. B.
POLYMERIZATION OF SIMPLE METHYL VINYL ETHER. 14p (2 figs 4 refs omitted).
Order from SLA $1.60 TT-64-18576

Trans. of [Zhurnal Obshchei Khimii] (USSR) 1947, v. 17 [no. 1] p. 122-129.

Matsui, Hiroji and Soeda, Yoshinobu.
METHOD OF MANUFACTURING THE COLORING MATTER OF BISETHYLENEIMINO-S-TRIAZINE SERIES. 5p.
Order from SA $16.00 SA Code-P-331

Trans. of published Japanese patent 11442/1963, 6 Jul 63, cl. 23-D-3 (23-A-O)(23-F-2) appl. no. 34771/1960, 16 Aug 60.

Meerwein, H.
CONCERNING THE CATALYTIC DECOMPOSITION OF DIAZOMETHANE AND POLYMETHYLENE. 2p.
Order from SLA $1.10 TT-64-18099

Trans. of Angew[andte] Chemie (West Germany) 1948, v. 60 [no. 3] p. 78.

Meguro, Kenjiro and Takagi, Kunihiko.
METHOD OF MANUFACTURING FINELY DISPERSED THRENE PIGMENT. 15p.
Order from SA $16.00 SA Code-P-338

Trans. in manuscript of published Japanese patent 26086/1963, 9 Dec 63, cl. 24-A-4, appl. no. 21133/1961, 16 Jun 61, by Dainihon Ink Chemical Industry Co., Ltd.

Mikhant'ev, B. I. and Lapenko, V. L.
VINYLATION OF MONOACETONE-d-GLUCOSE. 3p 7refs.
Order from SLA $1.10 TT-64-18484

Trans. of #Zh[urnal] Obs[h]ch[ei] Khim[ii] (USSR) 1957, v. 27, no. 11, p. 2972-2974.

Nagasawa, Masao, Tsuboi, Takeo, and Shinohara, Kan.
ORGANIC PHOSPHORUS INSECTICIDE COMPOSITION. Jun 64, 8p.
Order from SA $19.00 SA Code-P-312

Trans. of published Japanese patent 6199/1963, cl. 30-F-372 (30-F-922) appl. no. 178/1961, 6 Jan 61, pub. 16 May 63, by Ihara Noyaku Co., Ltd.

Nekrasova, V. A.
SYNTHESIS OF SECONDARY ALKYL HALIDES BY THE THERMAL CHLORINATION OF N-ALKANES. 6p 6refs.
Order from SLA $1.10 TT-64-18438

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1953, v. 88 [no. 1] p. 73-76.
Another trans. is available from K-H $4.20 as K-H-13077a, 7p.

Nekrasova, V. A.
THE THERMAL CHLORINATION OF ALKANES AND OF THEIR MONOCHLORIDES. 8p 6refs.
Order from SLA $1.10 TT-64-18439

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1953, v. 88 [no. 3] p. 475-478.
Other translations are available from SLA $1.10 as TT-63-14145, 4p; from ATS as RJ-109, 6p and from ETC $1.55 as TT-61-17313, MTWL-730, 6p.

Nekrasova, V. A. and Shuikin, N. I.
THE CHLORINATION OF N-UNDECANE. 6p 10refs.
Order from SLA $1.10 TT-64-18441

Trans. of Akad[emiya] Nauk SSSR. Dokl[ady] 1954, v. 97 [no. 5] p. 843-846.
Other translations are available from ATS as ATS-RJ-230, 5p. and from ES $4.00, 5p.

Nishikawa, Gen, Takahashi, Shoichi, and Tarakura, Matsuo.
A PROCESS FOR RECOVERY OF PENTA-ERYTHRITOL. 6p.
Order from SA $16.00 SA Code P-354

Trans. of published Japanese patent 17656/1963, cl. 16 B 424, appl. no. 14303/1961, filed 26 Apr 61, pub. 10 Sep 63, by Dai-Nippon Ink Chemical Co., Ltd

Okawara, R[okuro] Numa [Yoshiaki] and Watase, T[akeo].
FRACTIONAL ETHANOLYSIS OF ETHYL TRICHLOROSILANE. 18p (4 figs omitted) 7refs.
Order from SLA $1.60 TT-64-16155

Trans. of [Kogyo Kagaku Zasshi] (Japan) 1954, v. 57 [no. 2] p. 118-121.
Another trans. is available from K-H $18.00 as K-H-3871a, 18p.

Orthner and others.
PROCESS FOR PREPARATION OF CARBAMYL PHOSPHATE ESTERS. 5p
Order from SLA $1.10 TT-64-18059

Trans. of German patent 1,134,982, by Farbwerke Hoechst A. G., Frankfurt, filed 17 Dec 59, pub. 23 Aug 62.

Pace, E.
AROMATIC ORGANIC DERIVATIVES OF BORON (Derivati Organo-Aromatici del Boro). [11 p] (foreign text included) 7refs.
Order from SLA $1.60 TT-64-16718

Trans. of Accad[emia] Naz[ionale dei] Lincei. Atti. Classe [di] Sci[enze] Fis[iche] Mat[ematiche] e Nat[urali]. Rend[iconti] (Italy) 1929, ser. 6, v. 10, p. 193-196.
Another trans. is available from SLA $1.10 as TT-60-18884, 6p. (without foreign text).

Paushkin, Ya. M. and Lunin, A. F.
SYNTHESIS OF NEW NITROGEN- AND OXYGEN-CONTAINING POLYMERS WITH CONJUGATED BONDS FROM SODIUM CARBONATE AND AMMONIUM CHLORIDE. 4p 1ref.
Order from SLA $1.10 TT-64-18483

Trans. of Akad[emiya] Nauk SSSR. Dokl[ady] 1963, v. 150 [no. 4] p. 823-825.

Pratesi, P.
CONCERNING ADDITION REACTIONS OF UNSATURATED ORGANIC COMPOUNDS (Sulle Reazioni di Addizione ai Composti Organici non Saturi). [14p] (foreign text included) 10refs.
Order from SLA $1.60 TT-64-16713

Trans. of Accademia Nazionale [dei] Lincei. Atti. [Classe di Scienze Fisiche, Matematiche e Naturali. Rendiconti] (Italy) 1931 [ser. 6] v. 13, p. 779-784.

Razuvaev, G. A., Sorokin, Yu. A., Domrachev, G. A., Petukhov, G. G. and Tsvetkov, Yu. D.
STRUCTURE OF ORGANOCHROMIUM COMPOUNDS. 3p (1 fig omitted) 12refs.
Order from SLA $1.10 TT-64-18793

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1957, v. 113 [no. 6] p. 1293-1294.
Another trans. is available from SLA as R-4342 [5p].

Reppe, Walter.
CHEMISTRY AND TECHNIQUE OF ACETYLENE PRESSURE REACTIONS, PT. 2. 23p (tables formulae omitted).
Order from SLA $2.60 TT-64-18856

Trans. of Chemie-Ingenieur-Technik (West Germany) 1950, v. 22, no. 17, p. 361-373.

Staverman, A. J.
THERMODYNAMIC PROPERTIES AND STRUCTURE. [15p] (22 refs omitted).
Order from SLA $1.60 TT-64-1888

Trans. of Chemisch Weekblad (Netherlands) 1952, v. 48 [no. 16] p. 259-264.

Toyama, Hidenari and Kozuki, Eiichi.
A PROCESS FOR REMOVING ACETIC ACID FROM POLYVINYL ALCOHOL. 4p.
Order from SA $16.00 SA Code-P-336

Trans. of published Japanese patent 2078/1947, 19 Dec 47, specification no. 176,246, cl 26-B-131, appl. no. 12088/1944, 11 Dec 44, by Mitsubishi Kasei Kogyo Co., Ltd.

Trommsdorff, E. and Abel, G.
PROCESS FOR PREPARATION OF GRANULAR POLYMETHACRYLIC ACID. 5p.
Order from SLA $1.10 TT-64-18041

Trans. of German patent 749,016, n.d.

Vachez, F.
HYDRATION OF OLEFINS. 47p 39refs.
Order from SLA $4.60 TT-64-18766

Trans. of Rev[ue de l'] Inst[itut] Franc[ais du] Petrole [et Annales des Combustibles Liquides] 1963, v. 18 [no. 5] p. 724-759.

Wesslau, Hermann.
ON MOLECULAR WEIGHT DISTRIBUTIONS OF LOW PRESSURE POLYETHYLENES. COMMUNICATION 3. LOW PRESSURE POLYETHYLENES WITH A NARROW MOLECULAR WEIGHT DISTRIBUTION. 12p (7 figs omitted) 15refs.
Order from SLA $1.60 TT-64-18813

Trans. of Makromolekulare Chemie (Switzerland) 1958, v. 26 [no. 1/2] p. 102-118.

Wittig, Georg and Raff, Paul.
CONCERNING THE COMPLEX FORMATION WITH TRIPHENYL BORON. Communication No. 3. 15p 17refs.
Order from SLA $1.60 TT-64-18086

Trans. of [Justus Liebigs] Annalen der Chemie (West Germany) 1951, v. 573 [no. 3] p. 195-[209].

Wolthan, H. and Groves, W.
PROCESS FOR THE PREPARATION OF ISOCYANATES. 3p.
Order from SLA $1.10 TT-64-18046

Trans. of German patent 952,086, by Farbenfabriken Bayer A. G., Leverkusen-Bayerwerk, pub. 8 Nov 56.

Yakubovich, A. Ya.
KETENE. 2p (110refs omitted) 15refs.
Order from SLA $1.10 TT-64-16891

Abstract trans. of Uspekhi Khimii (USSR) 1945, v. 14, p. 301-329.
A complete trans. is available from SLA as no. 1040 (42)p.

Yoshioka, Hirosuke, Horie, Sadao, and Kuramoto, Saichiro.
METHOD OF PURIFYING ORGANIC PHOSPHATE ESTERS. 8p.
Order from SA $19.00 SA Code-P-324

Trans. of published Japanese patent 16873/1963, 3 Sep 63, cl. 16-B-92 (30-F-372) (30-F-922) appl. no. 51301/1960, 28 Dec 60, by Sumitomo Chemical Industry Co.

Ziegler, Karl, Gellert, H. G., Kühlhorn, H., Martin, H., Meyer, K., Nagel, K., and others.
ALUMINUM-ORGANIC SYNTHESIS IN THE RANGE OF OLEFINIC HYDROCARBONS. 5p.
Order from SLA $1.10 TT-64-18850

Trans. Condensed trans. of Angewandte Chemie (West Germany) 1952 [v. 64, no. 12, p. 323-329].
Other translations are available from SLA $1.60 as TT-63-18666 [19p]; $1.60 as TT-62-16697 [19p]; $4.80 as TT-60-18391; as no. 58-1373 [22p] and as AL-841 [16p].

Physical Chemistry

ADSORPTION AND HETEROGENOUS CATALYSIS. Abstracts of papers presented at the Colloqium, University of Liege, 18-21 Nov 57. 4p.
Order from SLA $1.10 TT-64-18814

Trans. of Angew[andte] Chem[ie] (West Germany) 1958, v. 70 [no. 4] p. 106-107.

[Alabyshev, A. F. and Kulakovskaya, N. Ya.]
THE ELECTRIC CONDUCTIVITY OF THE FUSED SYSTEM NaCl-$CaCl_2$-$BaCl_2$. 18p (9 figs omitted) 9refs.
Order from SLA $1.60 TT-64-16149

Trans. of Tekhnol[ogicheskii] Inst[itut] Im[eni] Leningradskogo Lensoveta. Trudy (USSR) 1946, v. 12, p. 152-164.
Another trans. is available from K-H $22.50 as K-H-3789, 18p.

Bachmann, L. and Cremer, E.
EXAMINATION OF CATALYST BY MEANS OF ELECTRON MICROSCOPY. [Paper presented at] the 55th Meeting of the German Bunsen Society for Physical Chemistry, Freiburg, 11 May 56. 5p (9 figs omitted) 14refs.
Order from SLA $1.10 TT-64-16815

Trans. of Zeitschrift für Elektrochemie (West Germany) 1956, v. 60 [no. 8] p. 831-835

Balandin, A. A., Tolstopyatova, A. A., and Naumov, V. A.
THE BOND ENERGIES OF "ORGANOGENIC" ELEMENTS WITH SURFACES OF OXIDE CATALYSTS. 6p 26refs.
Order from SLA $1.10 TT-64-18769

Trans. of Akad[emiya] Nauk SSSR. Dokl[ady] 1963, v. 148 [no. 4] p. 825-828.

Denisov, E. T.
STUDY OF THE OXIDATION OF CYCLOHEXANE BY THE METHOD OF INHIBITION DURING THE REACTION. 13p 17refs.
Order from SLA $1.60 TT-64-18412

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1959, v. 33 [no. 6] p. 1198-1208.

Determann, Helmut, Lüben, Gerhard, and Wieland, Theodor.
FRACTIONATION OF POLYSTYRENES BY GEL CHROMATOGRAPHY. 12p 17refs.
Order from SLA $1.60 TT-64-18417

Trans. of Makromol[ekulare] Chem[ie] (Switzerland) 1964, v. 73, p. 168-176.

Engel, H. J.
ELECTROCHEMICAL DETERMINATION OF STOICHIOMETRICAL DEVIATIONS IN METAL OXIDES. [Paper presented at the 55th Meeting of German Bunsen Society for Physical Chemistry, Freiburg, 12 May 56]. 9p (8 figs omitted) 13refs.
Order from SLA $1.10 TT-64-18098

Trans. of Z[eitschrift für] Elektrochem[ie] (West Germany) 1956, v. 60, no. 8, p. 905-911.

Fastovskii, V. G. and Petrovskii, Yu. V.
STUDY OF THE BALANCE LIQUID-VAPOR IN THE SYSTEM ARGON-OXYGEN. 10p (4 figs 3 tables 8refs 7 formulae omitted).
Order from SLA $1.10 TT-64-18579

Trans. of Zhurnal Fiz[icheskoi] Khimii (USSR) 1955, v. 29 [no. 7], p. 1311-1317].

Germain, J. E., Maurel, R., and Sinn, R.
HYDROGENATION KINETICS OF BENZENE VAPOR ON NICKEL ALUMINA CATALYST. II. ORDER WITH RESPECT TO THE CYCLOHEXANE. 7p 6refs.
Order from SLA $1.10 TT-64-16972

Trans. of J[ournal de] Chim[ie] Phys[ique] (France) 1963, v. 60 [no. 10] p. 1227-1230.

Germain, J. E., Maurel, R., Bourgeois, Y., and Sinn, R.
THE KINETICS OF BENZENE VAPOR HYDROGENATION ON A NICKEL-ALUMINA CATALYST. I. REACTION ORDERS WITH RESPECT TO BENZENE AND HYDROGEN. 16p 14refs.
Order from SLA $1.60 TT-64-18776

Trans. of J[ournal de] Chim[ie] Phys[ique] (France) 1963, v. 60 [no. 10] p. 1219-1226.

Golodets, G. I. and Roiter, V. A.
USE OF THE THERMODYNAMIC PARAMETERS OF SUBSTANCES AND REACTIONS IN THE CHOICE OF CATALYSTS (Ispol'zovanie Termodinamicheskikh Kharakteristik Veshchestv i Reaktsii pri Podbore Katalizatorov). Jul 64 [41p] 29refs RTS 2553.
Order from OTS or ETC HC $2.00, MF $0.50 TT-64-19379

Trans. of Ukrainskii Khimicheskii Zhurnal (USSR) 1963, v. 29, no. 7, p. 667-685.
Another trans. is available from ATS $19.85 as ATS-32R76R, 19p.

Koutecký, Jaroslav.
RESULTS OF A STUDY CONCERNING CHEMISORPTION WITH THE AID OF THE METHOD OF MOLECULAR EIGENFUNCTIONS. [Paper presented at] the 55th Meeting of the German Bunsen Society for Physical Chemistry, Freiburg, 11 May 56. 5p 15refs.
Order from SLA $1.10 TT-64-16816

Trans. of Zeitschrift für Elektrochemie (West Germany) 1956, v. 60 [no. 8] p. 835-[838].

Kurbangalina, R. Kh.
LIMITING DIAMETERS OF A STABLE DETONATION OF A MIXTURE OF HYDROGEN PEROXIDE WITH METHYL ALCOHOL AND PERCHLORIC ACID WITH ETHYL ALCOHOL.
D. J. Frendzel, tr. Jun 64 [6p] 8refs.
Order from OTS or ETC HC $1.00, MF $0.50 TT-64-19353

Trans. of [Zhurnal Fizicheskoi Khimii] (USSR) 1948, v. 22, no. 1, p. 49-51.

Loosjes, R.
pH MEASUREMENT IN SUSPENSIONS (pH-Meting in Suspensies). [14p] (foreign text included) 8refs.
Order from SLA $1.60 TT-64-18307

Trans. of Chemisch Weekblad (Netherlands) 1950, v. 46, p. 902-906.
Another trans. is available on loan from SLA as 57-2681 (8)p.

Manecke, G.
ELECTRON EXCHANGERS. [Paper presented] at the Discussion Session of the German Bunsen Society for Physical Chemical, Grosse Ledder, 30 Oct 52. 18p (4 figs omitted) 7refs.
Order from SLA $1.60 TT-64-18843

Trans. of Zeitschrift für Elektrochemie (West Germany) 1953, v. 57, no. 3, p. 189-194.

Manecke, G. and Bonhoeffer, K. F.
ELECTRIC CONDUCTIVITY OF ANION EXCHANGE MEMBRANES. 8p (5 figs 3 tables 8 refs formulae omitted).
Order from SLA $1.10 TT-64-18899

Trans. of Zeit[schrift] für Elektrochemie (West Germany) 1951, v. 55, no. 6, p. 475-481.
Another trans. is available from SLA $1.60 as TT-63-10292, 17p.

Miesserov, K. G.
CATALYTIC ACTIVITY AND ACIDITY OF SILICA GEL TREATED WITH SOLUTIONS OF ALUMINUM SALTS. 6p 14refs.
Order from SLA $1.10 TT-64-16900

Trans. of [Akademiya Nauk SSSR. Izvestiya. Seriya Khimicheskaya] 1956 [no. 10] p. 1180-1184.
Another trans. is available from ATS as ATS-53J14R (1)p.

Mills, G. A., Weller, S. G., Hindin, S. G., and Milliken, T. H.
CONCERNING THE RELATIONSHIP BETWEEN DEHYDRATION AND CATALYTIC PROPERTIES OF ALUMINA. [Paper presented at] the 55th Meeting of the German Bunsen Society for Physical Chemistry, Freiburg, 11 May 56. 9p (5 figs omitted) 10refs.
Order from SLA $1.10 TT-64-16810

Trans. of Zeitschrift für Elektrochemie (West Germany) 1956, v. 60 [no. 8] p. 823-827.

Nagase, Shunji and Baba, Hajime.
ELECTROCHEMICAL FLUORINATION OF SEVERAL VINYL COMPOUNDS. 4p (7 tables 4 refs omitted) 3refs
Order from SLA $1.10 TT-64-18122

Trans. of Kogyo Kagaku Zasshi (Japan) 1964, v 67 [no. 2) p. 321-323.

Nowotny, Hans and Schubert, Konrad.
THE MANGANESE (IRON)-TIN SYSTEM. 13p (1 fig 4 tables omitted) 27refs.
Order from SLA $1.60 TT-64-18123

Trans. of [Zeitschrift für Metallkunde (West Germany) 1946, v. 37, no. 1/2, p. 17-23].

P'an, Chia-lai and Chang, Hui-min.
EMPIRICAL FORMULAS FOR THE CLEAVAGE ENERGY OF THE BORON BOND [AND] PREPARATION AND PROPERTIES OF SOME RARE-EARTH TITANATES. Communist China's Science and Technology: Selected Translations no. 98. 21 Jul 64, 12p 26refs JPRS: 25530.
Order from OTS HC $0.50 MF $0.50 TT-64-31802

Trans. of Hua Hsüeh T'ung Pao (Chinese People's Republic) 1964, no. 5, p. 53-57.

Peters, K. and Proksch, E.
ADSORPTION KINETICS OF GASES NEAR THE CRITICAL TEMPERATURE. 9p 33refs.
Order from SLA $1.10 TT-64-18515

Trans. of Z[eitschrift für] Elektrochemie (West Germany) 1957, v. 61 [no. 9] p. 1241-[1246].

Pikaev, A. K., Glazunov, P. Ya., and Yakubovich, A. A.
RADIOLYSIS OF AQUEOUS NEUTRAL NITRATE SOLUTIONS AT HIGH ABSORBED DOSE CAPACITIES (Radioliz Vodnykh Neitral'nykh Rastvorov Nitratov pri Vysokhikh Moshchnostyakh Pogloshchennoi Dozy) E. K. Wilip, tr. Jun 64 [15p] 29refs.
Order from OTS HC $1.00 ANL-Trans-39

Trans. of Kinetika i Kataliz (USSR) 1963, v. 4, no. 6, p. 835-843.

Rienäcker, G. and Hansen, N.
CATALYSIS ON THIN NICKEL LAYERS. [Paper presented] at the 55th Meeting of German Bunsen Society for Physical Chemistry, Freiburg, 12 May 56. 6p (13 figs 11 refs omitted)
Order from SLA $1.10 TT-64-18090

Trans. of Z[eitschrift für] Elektrochem[ie] (West Germany) 1956, v. 60, no. 8, p. 887-891.

Rienäcker, G. and Horn, G.
SURFACE AND CATALYTIC ACTIVITY OF PRESSED COPPER OXIDE CATALYST IN RELATIONSHIP OF PRESSURE. [Paper presented at] the 55th Meeting of the German Bunsen Society for Physical Chemistry, Frieburg, 11 May 56. 5p (7 figs omitted) 9refs.
Order from SLA $1.10 TT-64-16811

Trans. of Zeitschrift für Elektrochemie (West Germany) 1956, v. 60 [no. 8] p. 828-[831].

Roslovskii, A. I.
COMBUSTION OF NITRIC OXIDE AND HYDROGEN MIXTURES. I. KINETICS OF THE FLAME REACTION. 15p 13refs.
Order from SLA $1.60 TT-64-16324

Trans. of Zhurnal Fiz[icheskoi] Khimii (USSR) 1956, v. 30 [no. 4] p. 912-921.

Schäfer, Kl. and Gerstacker, H.
ADSORPTION, A PARTIAL THERMAL ACCOMMODATION OF GASES ON SURFACES, AND ITS RELATION TO CATALYTIC ACTIONS. [Paper presented] at the 55th Meeting of the German Bunsen Society for Physical Chemistry, Freiburg, 12 May 56. 18p (10 figs 6 tables 14 refs omitted).
Order from SLA $1.60 TT-64-18089

Trans. of Z[eitschrift für] Elektrochemie (West Germany) 1956, v. 60, no. 8, p. 874-887.

Schmeisser, M. and Sartori, P.
ELECTROCHEMICAL FLUORINATION. 9p (3 figs 41 refs omitted).
Order from SLA $1.10 TT-64-18125

Trans. of Chemie-Ing[enieur]-Techn[ik] (West Germany) 1964, v. 36 [no. 1] p. 9-14.

Schmitz-Du Mont, Otto.
AUTOCATALYSIS AT THE DECOMPOSITION OF AMORPHOUS METALLIC AMIDES. [Paper presented] at the 55th Meeting of the German Bunsen Society for Physical Chemistry, Freiburg, 12 May 56. 5p (6 figs 6refs omitted) 1ref.
Order from SLA $1.10 TT-64-18087

Trans. of Z[eitschrift für] Elektrochemie (West Germany) 1956, v. 60 [no. 8] p. 866-869.

Shakhparanov, M. I.
THERMODYNAMICS OF DIELECTRICS AND THE MOLECULAR STRUCTURE OF LIQUIDS. 6p 22refs.
Order from OTS or ETC HC $1.00 AEC-tr-6074

Trans. of #Zhurnal Fizicheskoi Khimii (USSR) 1963, v. 37, no. 5, p. 1169-1172.

Shestoperov, S. V., Lyubimova, T. Yu., Ivanov, F. M. Nefedova, E. F., and Mukhutdinov, A. M.
EFFECT OF SURFACE-ACTIVE ADMIXTURE ON THE REACTION OF CEMENT AND WATER. 6p (3 figs omitted) 4refs.
Order from SLA $1.10 TT-64-18333

Trans. of [Akademiya Nauk SSSR. Doklady] 1950, v. 70, no. 6, p. 1045-1048.
Other translations are available in English from OTS $1.00 as TT-62-25372 (6)p. and in Dutch from OTS or ETC $1.00 as TT-61-17590, MTWL-355 (9)p.

Suhramann, R. and Keune, H.
ON THE DETERMINATION OF ELEMENTARY PROCESSES IN OXYGEN ADSORPTION ON TRANSPARENT BISMUTH FILMS BY RESISTANCE MEASUREMENT. [Paper presented at the 55th Meeting of the German Bunsen Society for Physical Chemistry, Freiburg, 12 May 56. 10p (11 figs omitted) 9 refs.
Order from SLA $1.10 TT-64-18091

Trans. of Z[eitschrift für] Elektrochem[ie] (West Germany) 1956, v. 60, no. 8, p. 898-905.

Suhrmann, R.
ELECTRONIC RECIPROCAL ACTION IN THE CHEMISORPTION ON CONDUCTING SURFACES. [Paper presented at] the 55th Meeting of the German Bunsen Society for Physical Chemistry, Freiburg, 12 May 56. 17p (23 figs omitted) 47refs.
Order from SLA $1.60 TT-64-16826

Trans. of Z[eitschrift für] Elektrochemie (West Germany) 1956, v. 60, no. 8, p. 804-815.

Suhrmann, R. and Wedler, G.
ON THE DETERMINATION OF ELEMENTARY PROCESSES IN FORMIC ACIDS DECOMPOSITION ON NICKEL CONTACT BY RECIPROCAL ACTION OF ELECTRONS. [Paper presented] at the 55th Meeting of the German Bunsen Soc[iety for Physical Chemistry, Freiburg] 12 May 56. 10p (9 figs 1 table omitted) 8refs.
Order from SLA $1.10 TT-64-18092

Trans. of Z[eitschrift für] Elektrochem[ie] (West Germany) 1956, v. 60, no. 8, p. 892-898.

Szabo, Z. G. and Biro-Sugar, E.
KINETICS OF THERMAL DECOMPOSITION OF SILVEROXALATE. [Paper presented at the 55th Meeting of the German Bunsen Society for Physical Chemistry, Freiburg, 12 May 56]. 8p (7 figs omitted) 12refs.
Order from SLA $1.10 TT-64-18088

Trans. of Z[eitschrift für] Elektrochem[ie] (West Germany) 1956, v. 60, no. 8, p. 869-874.

Wörmann, E., Hahn, Th., and Eysel, E.
CHEMICAL AND STRUCTURAL INVESTIGATIONS ON THE SOLID SOLUTIONS OF TRICALCIUM SILICATE. [26 p] 9refs.
Order from SLA $2.60 TT-64-16365

Trans. of Zement-Kalk-Gips, 1963 [v. 16/52] no. 9 [p. 370-375].

EARTH SCIENCES

EAST EUROPEAN SCIENTIFIC ABSTRACTS: EARTH SCIENCES NO. 20. 23 Jul 64, 15p JPRS: 25557.
Order from OTS HC $0.50 MF $0.50 TT-64-31829

Consist of abstracts of articles from selected scientific and technical journals of Bulgaria, Czechoslovakia, East Germany, and Rumania.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: EARTH SCIENCES NO. 21. 19 Aug 64, 39p JPRS: 25988.
Order from OTS HC $2.00, MF $0.50 TT-64-41259

Consists of abstracts of articles from the scientific and technical journals of Bulgaria, Czechoslovakia, East Germany, Hungary and Rumania.

SOVIET HYDROLOGY: SELECTED PAPERS, 1963, NO. 3, P. 211-314. Mar 64, 1v 108refs
Order from AGU $7.50, $20.00/year

Trans. of 10 selected articles from 1963 issues of 3 Russian journals.

Separate entries have been prepared for the individual articles.

Apollov, B. A. and Pavlov, V. M.
A ROTORLESS CURRENT METER
J. S. Sweet, tr. Mar 64, 2p.
Order from AGU $7.50 in Soviet Hydrology: Selected Papers, 1963, no. 3, p. 295-296

Trans. of [Metrorologiya i Gidrologiya] (USSR) 1963, no. 6, p. 54-55.

Bagrov, N. A.
ON THE FLUCTUATIONS OF LEVELS OF CLOSED LAKES
J. S. Sweet, tr. Mar 64, 6p 6refs.
Order from AGU $7.50 in Soviet Hydrology: Selected Papers, 1963, no. 3, p. 289-294

Trans. of [Meteorologiya i Gidrologiya] (USSR) 1963, no. 6, p. 41-46.

Beshkov, Anastas.
BRIEF DESCRIPTION OF THE NATIONAL ATLAS OF BULGARIA. 31 Jul 64, 6p JPRS: 25694.
Order from OTS HC $1.00 MF $0.50 TT-64-31966

Trans. of Bulgarska Akademiya na Naukite. Spisanie, 1963, v. 8, no. 4, p. 30-34.

Bradeanu, P. and Pavaloiu, I.
OPTIMUM THRUST-CONTROL REGIMES FOR CERTAIN ROCKETS. 14 Jul 64 [18p] 2refs FTD-TT-64-615; AD-603 332.
Order from OTS HC $1.00, MF $0.50 TT-64-71161

Edited trans. of [Academia Republicii Populare Romine. Institutul de Mechanica Aplicata]. Studii si Cercetari de Mecanica [Aplicata] 1963, v. 14, no. 4, p. 805-816.

Dement'ev, N. F.
SYNCHRONISM IN THE FLUCTUATION OF LEVELS OF THE GROUND WATER AND THE COMPUTATION OF THE GROUND-WATER FLOW
Y. Ksander, tr. Mar 64, 6p 8refs.
Order from AGU $7.50 in Soviet Hydrology: Selected Papers, 1963, no. 3, p. 279-284

Trans. of [Meteorologiya i Gidrologiya] (USSR) 1963, no. 6, p. 10-17.

Gorbunov, Yu. V.
EXPERIMENTAL INVESTIGATION OF ABSORPTION OF PERCHED WATER BY THE ILLUVIAL SOIL HORIZON
L. G. Robbins, tr. Mar 64, 5p 1ref
Order from AGU $7.50 in Soviet Hydrology: Selected Papers. 1963. no. 3. p. 284-288

Trans. of [Meteorologiya i Gidrologiya] (USSR) 1963, no. 6, p. 30-34.

Gordeev, D. I.
THE TEACHING OF V. I. VERNADSKII ABOUT NATURAL WATERS AND ITS IMPORTANCE FOR HYDROGEOLOGY
D. B. Krimgold, tr. Mar 64, 11p 7refs.
Order from AGU $7.50 in Soviet Hydrology: Selected Papers, 1963, no. 3, p. 297-307

Trans. of Moscow U. Vestnik. [Seriya 4: Geologiya] 1963, [v. 18] no. 1, p. 28-42.

Ivanenko, A. G.
THE RELATIONSHIP OF INSTANTANEOUS MEAN DAILY MAXIMAL WATER DISCHARGES
L. G. Robbins, tr. Mar 64, 2p 1ref.
Order from AGU $7.50 in Soviet Hydrology: Selected Papers, 1963, no. 3, p. 288-289

Trans. of [Meteorologiya i Gidrologiya] (USSR) 1963, no. 6, p. 34-35.

Kovalevskii, A. F.
ON THE MECHANISM OF GEOMAGNETIC EFFECTS OF MAJOR EXPLOSIONS. 24 Jun 64 [11p] 25refs FTD-MT-64-266; AD-602 401.
Order from OTS HC $1.00, MF $0.50 TT-64-11889

Edited machine trans. of Sibriskii Fiziko-Tekhnicheskii Institut. Trudy (USSR) 1962, v. 41, p. 87-91.

Mikei, N. I.
FLUORINE CONTENT IN THE ATMOSPHERIC PRECIPITATION AND IN SURFACE WATERS OF VARIOUS ORIGIN
E. F. Tourkoff, tr. Mar 64, 15p 34refs.
Order from AGU $7.50 in Soviet Hydrology: Selected Papers, 1963, no. 3, p. 211-225

Trans. of G[osudarstvennyi] G[idrologicheskii] I[nstitut]. Trudy (USSR) 1963, v. 102, p. 209-226.

Shults, V. L.
ON THE QUESTION OF THE EXPEDIENCY OF ARTIFICIAL INTENSIFICATION OF THE MELTING OF SNOW IN THE MOUNTAINS OF CENTRAL ASIA
S. Molansky, tr. Mar 64, 4p 5refs
Order from AGU $7.50 in Soviet Hydrology: Selected Papers, 1963, no. 3, p. 275-278

Trans. of [Meteorologiya i Gidrologiya] (USSR) 1963, no. 5, p. 38-41.
Another trans. is available from OTS $2.50 in TT-63-31267, JPRS-20146, 12 Jul 63, 112p.

Vorob'ev, P. K.
INVESTIGATIONS OF WATER YIELD OF LOW LYING SWAMPS OF WESTERN SIBERIA
D. B. Krimgold, tr. Mar 64, 27p 14refs.
Order from AGU $7.50 in Soviet Hydrology: Selected Papers, 1963, no. 3, p. 226-252

Trans. of G[osudarstvennyi] G[idrologicheskii] I[nstitut]. Trudy (USSR) 1963, v. 105, p. 45-79.

Znamenskaya, N. S.
EXPERIMENTAL STUDY OF THE DUNE MOVEMENT OF SEDIMENT
L. G. Robbins, tr. Mar 64, 23p 33refs.
Order from AGU $7.50 in Soviet Hydrology: Selected Papers, 1963, no. 3, p. 253-275

Trans. of G[osudarstvennyi] G[idrologicheskii] I[nstitut]. Trudy (USSR) 1963, v. 108, p. 89-114.

Climatology and Meteorology

ACTA METEOROLOGICA SINICA, 1963, VOL. 33, NO. 4: TABLE OF CONTENTS [AND SELECTED ABSTRACTS] N. H. Ng, tr. Apr 64 [17p] E-TC-Ch-64-20.
Order from OTS, or ETC HC $1.00, MF $0.50 TT-64-19341

Trans. of Ch'i Hsiang Hsüeh Pao (Chinese Peoples' Republic) 1963, v. 33, no. 4, p. 411-561 (table of contents and selected abstracts).

Kalman, Eva Cheh.
NEW METHODS OF MEDIUM RANGE WEATHER FORECASTING. 17 Jul 64, 7p 7refs JPRS: 25509.
Order from OTS HC $0.50 MF $0.50 TT-64-31781

Trans. of Idojaras (Hungary) 1963, v. 67, no. 6, p. 372-376.

Kibel', Ivan Afanas'evich.
AN INTRODUCTION TO THE HYDRODYNAMICAL METHODS OF SHORT PERIOD WEATHER FORECASTING. 1964, 383p.
Order from MACM $14.50

Trans. of mono. [Vvedenie v Gidrodinamicheskie Metody Kratkosrochnogo Prognoza Pogody, Moscow, 1957, 375p]

Klinov, F. Ya.
ON STATIONARY METEOROLOGICAL MEASUREMENTS IN LOWER 300-METER LAYER OF THE ATMOSPHERE. 6 Jul 64 [69p] 90refs FTD-MT-63-184; AD-603 322.
Order from OTS HC $3.00 MF $0.75 TT-64-71153

Edited machine trans. of mono. Izuchenie Pogranichnogo Sloya Atmosfery s 300-Metrovoi Meteorolocheskoi Bashni (Study of the Boundary Layer of the Atmosphere [from a 300-Meter Weather Tower]) [Moscow] 1963, p. 3-40.

Marchuk, G. I.
A THEORETICAL MODEL OF WEATHER FORECASTING. 8 Jul 64, 7p 17refs JPRS: 25398.
Order from OTS HC $0.50 MF $0.50 TT-64-31671

Trans. of Akademiya Nauk SSSR. Doklady, 1964, v. 155, no. 5, p. 1062-1065.

Ogiwara, Sekiji and Kobayashi, Teisaku.
ONTTHE GROWTH OF WATER DROPLETS AROUND HYGROSCOPIC PARTICLES IN CONVECTIVE CLOUD AND ITS APPLICATION TO THE ARTIFICIAL RAIN-MAKING. 23p (10 figs omitted) 11refs.
Order from SLA $2.60 TT-64-16998

Trans. of [Teion Kagaku. Butsuri Hen] (Japan) 1954, v. 12, p. 94-111.

Frost Science

Baranov, I. Ya.
GEOGRAPHICAL DISTRIBUTION OF SEASONALLY FROZEN GROUND AND PERMAFROST (Geograficheskoe Rasprostranenie Sezonnopromerzayushchikh Pochv i Mnogoletnemerzlykh Gornykh Porod)
A. Nurklik, tr. 1964, 85p 830refs approx. NRC Technical Trans. 1121; NRC DBR 116.
Order from NRC $4.50 NRC C-4926

Trans. of mono. Osnovy Geokriologii (Merzlotovedeniya) (Principles of Geocryology (Permafrost Studies)) Moscow, 1959, pt. 1, chap. 7, p. 193-219.

Ito, K., Yano, T., and Hama, K.
SIZE DISTRIBUTION, CRYSTAL FORM AND FALLING VELOCITY OF SNOWFLAKE. [32p] 2refs.
Order from SLA $3.60 TT-64-16994

Trans. of [Kisho Shushi] (Japan) 1953, ser. 2, v. 31, no. 6, p. 219-231 (25-37).

Kumai, Motoi and Higuchi, Keiji.
MEASUREMENT OF THE MASS AND NUMBER OF FALLING SNOW CRYSTALS IN THE ATMOSPHERE. [32p] 13refs.
Order from SLA $3.60 TT-64-16995

Trans. of Kisho Shushi (Japan) 1952, ser. 2, v. 30, no. 11, p. [345]-355 (1-11).

Lonjid, N.
PERMANENT AND SEASONAL FROZEN GROUND IN MONGOLIA. 6 Jul 64, 56p 16refs JPRS: 25349.
Order from OTS HC $1.50 MF $0.75 TT-64-31622

Trans. of mono. Mongol Erny Olon Jiliyn ba Ulirlyn Tsebdgiyn Tuhay, Ulan Bator, 1962, 77p.

Puzakov, N. W.
FROST-PROTECTION LAYERS OF ROAD SURFACES (Morozozashchitnye Sloi Dorozhnoi Odezhdy)
J. R. S., tr. 7 Feb 64, 5p (figs omitted) I-3519.
Order from OTS HC $0.50 MF $0.50 TT-64-11842

Trans. of Avtomobil'nye Dorogi (USSR) 1962 [v. 25] no. 9, p. 9-11.

Shvetsov, P. F.
GENERAL MECHANISM OF THE FORMATION AND DEVELOPMENT OF PERMAFROST (Obshchie Zakonomernosti Vozniknoveniya i Razvitiya Mnogoletnei Kriolitozony)
G. Belkov, tr. 1964, 91p 833refs approx. NRC Technical Trans. 1117; NRC DBR 115.
Order from NRC $4.50 NRC C-4947

Trans. of mono. Osnovy Geokriologii (Merzlotovedeniya) (Principles of Geocryology (Permafrost Studies)) Moscow, 1959, pt. 1, chap. 4, p. 77-107.

Geology

INTERNATIONAL GEOLOGY REVIEW, VOL. 6, NO. 3, P. 379-571. Mar 64, 1v.
Order from AGI $5.00, $55.00/year

Trans. of 18 articles from various Russian journals and monographs.

Separate entries have been prepared for the individual articles.

INTERNATIONAL GEOLOGY REVIEW, VOL. 6, NO. 7, P. 1143-1332. Jul 64, 1v.
Order from AGI $5.00, $55.00/year

Trans. of 17 articles from various Russian and Chinese journals and monographs, citation of mainland China and East European shorter papers, announcement of translations available, and prepublication notice of Russian monographs.

Separate entries have been prepared for the translated articles.

STUDIES ON THE YELLOW SOIL CHARACTERISTICS OF THE NORTHWEST TO FACILITATE THE CONSTRUCTION OF ENGINEERING PROJECTS. 10 Jun 64, 3p JPRS: 25016 (p. 16-18).
Order from OTS HC $1.00 MF $0.50 in TT-64-31451 (p. 16-18)

Trans. from Kuang Ming Jih Pao (Chinese People's Republic) 1964, 10 May.

Borodulin, M. I.
GEOPHYSICAL FIELD STUDIES IN THE MAPPING OF THE MIKHILOVSKII DISTRICT, THE KURSK MAGNETIC ANOMALY (KMA) (Opyt Primeneniya Geofizicheskikh Issledovanii dlya Kartirovaniya Dokembriya v Mikhailovskom Raione KMA)
M. E. Burgunker, tr. Jul 64, 3p 4refs.
Order from AGI $5.00 in International Geology Review, 1964, v. 6, no. 7, p. 1174-1176

Trans. of Mat[erialy] po Geol[ogii] i Poleznym Iskopaemym Tsentral'nykh Raionov Evropeiskoi Chasti SSR, 1962, v. 5, p. 21-24.

Chukhrov, F. V. and Shlain, L. B.
MATERIAL COMPOSITION CHANGES IN THE GREISENIZATION OF KOUNRAD MASSIF GRANITES (Ob Izmeneniyakh Veshchestvennogo Sostava pri Greizenizatsii Granitov Kounradskogo Massiva).
Jul 64, 15p 5refs.
Order from AGI $5.00 in International Geology Review, 1964, v. 6, no. 7, p. 1279-1293

Trans. of #A[kademiya] N[auk] SSSR. Izv[estiya]. Ser[iya] Geol[ogicheskaya] 1962 [v. 27] no. 9, p. 27-47.

Ez, V. V. and Gaft, D. E.
FORMATION CONDITIONS AND DISTINCTIVE FEATURES OF TECTONIC BRECCIAS IN THE KARATAU RANGE, MIDDLE PALEOZOIC CARBONATE SECTION (SOUTH KAZAKHSTAN) (Ob Usloviyakh Obrazovaniya i Otlichitel'nykh Priznakakh Tektonicheskikh Brekchii v Srednepaleozoiskoi Karbonatnoi Tolshche Khrebta Karatau (Yuzhnii Kazakhstan)). Jul 64, 11p 9refs.
Order from AGI $5.00 in International Geology Review, 1964, v. 6, no. 7, p. 1294-1304

Trans. of #A[kademiya] N[auk] SSSR. Izv[estiya]. Ser[iya] Geol[ogicheskaya] 1962 [v. 27] no. 9, p. 75-89.

Frolova, N. V.
PROBABLE STRUCTURE OF ARCHEAN BASEMENT IN THE SOUTHEAST OF EAST SIBERIA (Predpolagaemoe Stroenie Arkheiskogo Fundamenta Yugo-Vostoka Vostochnoi Sibiri). Jul 64, 5p 14refs.
Order from AGI $5.00 in International Geology Review, 1964, v. 6, no. 7, p. 1249-1253

Trans. of #A[kademiya] N[auk] SSSR. Izv[estiya]. Ser[iya] Geol[ogicheskaya] 1962 [v. 27] no. 8, p. 14-20.

Gershanovich, D. E.
THE RELIEF OF THE MAIN FISHING INDUSTRY REGIONS (THE SHELF AND THE CONTINENTAL SHELF) AND SOME CHARACTERISTICS OF THE GEOMORPHOLOGY OF THE BERING SEA. [27p] (figs omitted).
Order from OTS or ETC HC $2.00 MF $0.50
TT-64-19369

[Summary] trans. of Vsesoyuznyi Nauchno-Issledovatel'skii Institut Morskogo Rybnogo Khozyaistva i Okeanografii. Trudy (USSR) 1963, v. 48, p. 13-76.

Kazanskii, V. I. and Yakshin, V. M.
INFLUENCE OF HOST ROCKS UPON STRUCTURE OF DISRUPTIVE DISTURBANCES (O Vliyanii Vmeshchayushchikh Porod na Stroenie Razryvnykh Narushenii)
V. P. Sokoloff, tr. Jul 64, 6p 1ref.
Order from AGI $5.00 in International Geology Review, 1964, v. 6, no. 7, p. 1154-1159

Trans. of A[kademiya] N[auk] SSSR. In[stitut] Geol[ogii] Rudnykh Mestorozhdenii, Petrograf[ii] Mineral[ogii] i Geokhim[ii]. Tr[udy] 1961, no. 41, p. 134-140.

Khain, V. E.
FUNDAMENTAL STAGES IN THE EVOLUTION OF THE CRUST, RECENT CONTINENTAL REGIONS (Osnovnye Etapy Razvitiya Zemnoi Kory (v Predelakh Sovremennykh Materikov))
Mark E. Burgunker, tr. Mar 64, 11p 36refs
Order from AGI $5.00 in International Geology Review, v. 6, no. 3, p. 439-449.

Trans. of Moskovskoe Obshchestvo Ispytatelei Prirody. Byulleten'. Otdel Geologicheskii (USSR) 1962, v. 37[67] no. 1, p. 8-24.

Koporulin, V. I.
TYPES OF SECONDARY ALTERATIONS IN SANDS AND GRAVELS OF IRKUTSK BASIN COAL MEASURES AND THEIR POSSIBLE RELATIONSHIP WITH UNDERGROUND WATER (Tipy Vtorichnykh Izmenenii Pechanograviynykh Porod Uglenosnoi Tolshchi Irkutskogo Basseyna i Ikh Vozmoshnaya Svyaz' s Podzemnymi Vodami). Mar 64, 10p 13refs
Order from AGI $5.00 in International Geology Review, v. 6, no. 3, p. 531-540

Trans. of #A[kademiya] N[auk] SSSR. Izv[estiya]. Ser[iya] Geol[ogicheskaya] 1962 [v. 27] no. 3, p. 72-87.

Krasheninnikov, G. F.
FACIES, GENETIC TYPES, AND FORMATIONS (Fatsii, Geneticheskie Tipy i Formatsii). Jul 64, 7p 22refs.
Order from AGI $5.00 in International Geology Review, 1964, v. 6, no. 7, p. 1242-1248

Trans. of #A[kademiya] N[auk] SSSR. Izv[estiya]. Ser[iya] Geol[ogicheskaya] 1962 [v. 27] no. 8, p. 3-13.

Li, Sze-kuang.
VORTEX STRUCTURE AND OTHER PROBLEMS RELATING TO THE DEVELOPMENT OF GEOTECTONIC SYSTEMS OF NORTHWESTERN CHINA, PT. II
K. Y. Lee, tr. Jul 64, 40p 48refs.
Order from AGI $5.00 in International Geology Review, 1964, v. 6, no. 7, p. 1177-1216

Trans. of [Ti Chih Hsüeh Pao] (Chinese People's Republic) 1954, v. 34, no. 4, p. 371-398.

Makunina, A. A.
CERTAIN RESULTS OF LANDSCAPE-GEOCHEMICAL INVESTIGATIONS IN THE VICINITY OF A CHALCOPYRITIC ORE DEPOSIT IN THE SOUTHERN URALS. (Nekotorye Rezul'tati Landshaftno-Geokhimicheskikh Issledovanii v Raione Mednokolchedannogo Mestorozhdeniya na Yushnom Urale). Pt. 5 of Geochemistry of Steppes and Deserts
V. P. Sokoloff, tr. Mar 64, 8p 4refs
Order from AGI $5.00 in International Geology Review, v. 6, no. 3, p. 379-386

Trans. of [Voprosy Geografii] (USSR) 1962 [v. 59] p. 132-144.

Matsuda, Tokihiko.
CRUSTAL STRUCTURE OF THE SOUTH FOSSA MAGNA, JAPAN, INFERRED FROM THE GEOLOGICAL DATA
Reiko Fusejima, tr. Mar 64, 10p 7refs
Order from AGI $5.00 in International Geology Review, v. 6, no. 3, p. 420-429

Trans. of Tokyo [Daigaku Jishin Kenyujo Iho] (Japan) 1962, v. 40, no. 2, p. 357-369.

Mogarovskii, V. V.
DISTRIBUTION OF GALLIUM IN ROCKS AND MINERALS: REVIEW OF MONO. GALLIUM BY O. V. VERSHKOVSKAYA, V. S. KRASNOVA, V. S. SALTYKOVA, AND A. E. PERVUKHINA, MOSCOW, 1960. (K Voprosu Rasprostraneniya Galliya v Gornykh Porodakh i Mineralakh: O Knige O. V. Vershkovskoi, V. S. Krasnovoi, V. S. Saltykovoi, A. E. Pervukhinoi "Gallii").
Jul 64, 6p 43refs.
Order from AGI $5.00 in International Geology Review, 1964, v. 6, no. 7, p. 1267-1272

Trans. of #A[kademiya] N[auk] SSSR. Izv[estiya]. Ser[iya] Geol[ogicheskaya] 1962 [v. 27] no. 8, p. 115-120.

Nekrasov, E. M.
FORMATION OF FAULTS ORIENTED ACROSS THE STRIKE OF FOLDED STRUCTURES (K Voprosu o Formirovanii Sbrosov, Orientirovannykh Poperek Prostiraniya Skladchatykh Struktur)
V. P. Sokoloff, tr. Jul 64, 11p 11refs.
Order from AGI $5.00 in International Geology Review, 1964, v. 6, no. 7, p. 1143-1153

Trans. of A[kademiya] N[auk] SSSR. In[stitut] Geol[ogii] Rudnykh Mestorozhdenii, Petrograf[ii] Mineral[ogii] i Geokhim[ii]. Tr[udy] 1961, no. 41, p. 119-133.

Nevskii, V. A.
TECTONIC FISSURING ROCKS IN CERTAIN ORE REGIONS OF CENTRAL ASIA (O Tektonicheskoi Treshchinovatosti Gornykh Porod Nekotorykh Rudnykh Raionov Srednei Asii). Jul 64, 14p.
Order from AGI $5.00 in International Geology Review, 1964, v. 6, no. 7, p. 1160-1173

Trans. of A[kademiya] N[auk] SSSR. In[stitut] Geol[ogii] Rudnykh Mestorozhdenii, Petrograf[ii] Mineral[ogii] i Geokhim[ii]. Tr[udy] 1961, no. 41, p. 140-157.

Nikitin, N. M. and Yasyrev, A. P.
FORMATION CONDITIONS OF GYPSUM IN THE SOUTH WING OF THE MOSCOW BASIN (K Voprosu ob Usloviyakh Obrazovaniya Gipsov Yuzhnogo Kryla Podmoskovnogo Basseina). Jul 64, 9p 12refs.
Order from AGI $5.00 in International Geology Review, 1964, v. 6, no. 7, p. 1233-1241

Trans. of #A[kademiya] N[auk] SSSR. Izv[estiya]. Ser[iya] Geol[ogicheskaya] 1962 [v. 27] no. 7, p. 59-69.

Parkhomenko, E. I.
LABORATORY AND FIELD RESEARCH INTO THE PIEZOELECTRIC EFFECT OF NAPHELINE-CONTAINING ROCKS. 17 Jun 64, 6p 11refs JPRS: 25126.
Order from OTS HC $0.50 MF $0.50 TT-64-31504

Trans. of Akademiya Nauk SSSR. Doklady, 1964, v. 155, no. 6, p. 1314-1316.

Prokhorov, K. V.
ASPECTS OF THE EVOLUTION OF MAGMATIC MELTS IN THE CRYSTALLIZATION OF HYBRID MAGMAS, AS ILLUSTRATED BY TERTIARY GRANITIC ROCKS OF KAMCHATKA (Osobennosti Evolyutsii Magmaticheskikh Rasplavov v Kode Kristallizatsii Gibridnykh Magmna Primere Tretichnykh Granitoidov Kamchatki). Jul 64, 13p 20refs.
Order from AGI $5.00 in International Geology Review, 1964, v. 6, no. 7, p. 1254-1266

Trans. of #A[kademiya] N[auk] SSSR. Izv[estiya]. Ser[iya] Geol[ogicheskaya] 1962 [v. 27] no. 8, p. 60-77.

Prozorovich, E. A.
FACTORS DETERMINING COMPACTION IN SEDIMENTARY ROCKS (K Vopros o Faktorakh Uplotneniya Osadochnykh Gornykh Porod)
Mark E. Burgunker, tr. Mar 64, 15p 19refs
Order from AGI $5.00 in International Geology Review, v. 6, no. 3, p. 405-419

Trans. of Azerbaidzhanskii Nauchno-Issledovatel'skii Institut po Dobyche Nefti. Trudy (USSR) 1956, v. 4, p. 244-270.

Ruzhentsov, S. V.
TECTONICS OF THE JUNCTION ZONE BETWEEN THE CENTRAL PAMIRS TROUGHAAND NORTH PAPIRS UPLIFT (Tektonika Zony Sochleneniya Tsentral'no-Pamirskogo Progiba i Severo-Pamirskogo Podnyatiya). Jul 64, 8p 16refs.
Order from AGI $5.00 in International Geology Review, 1964, v. 6, no. 7, p. 1225-1232

Trans. of #A[kademiya] N[auk] SSSR. Izv[estiya]. Ser[iya] Geol[ogicheskaya] 1962 [v. 27] no. 7, p. 9-18.

Sano, Shun-ichi.
DISTRIBUTION OF RADIOACTIVITY OF GRANITIC ROCKS IN THE TAKANAWA PENNISULA, EHIME PREFECTURE BY CAR-BORNE RADIOMETRIC SURVEY
Reiko Fusejima, tr. Mar 64, 19p 16refs
Order from AGI $5.00 in International Geology Review, v. 6, no. 3, p. 459-477

Trans. of [Chishitsu Chosajo Geppo] (Japan) 1960, v. 11, no. 6, p. 33-48.

Shcherbakov, D. I.
PROGRESS OF GEOLOGICAL STUDIES AT THE ACADEMY OF SCIENCES OF THE U. S. S. R. (O Nekotorykh Geologicheskikh Issledovaniyakh v Akademii Nauk SSSR). Jul 64, 6p.
Order from AGI $5.00 in International Geology Review, 1964, v. 6, no. 7, p. 1273-1278

Trans. of #A[kademiya] N[auk] SSSR. Izv[estiya]. Ser[iya] Geol[ogicheskaya] 1962 [v. 27] no. 9, p. 3-11.

Shih, Ya-feng.
CHINESE RESEARCH ON GLACIOLOGY, PERMAFROST AND ARID LAND HYDROGRAPHY THE PAST FIVE YEARS. 10 Jun 64, 15p JPRS: 25016 (p. 1-15).
Order from OTS HC $1.00 MF $0.50 in TT-64-31451 (p. 1-15)

Trans. of K'o Hsüeh T'ung Pao (Chinese People's Republic) 1964, no. 3, p. 218-225.

Shutov, V. D.
EPIGENETIC ZONES IN TERRIGENOUS DEPOSITS OF THE PLATFORM MANTLE (Zony Epigeneza v Terrigennykh Otlozheniyakh Platformennogo Chekhla (na Primere Izucheniya Rifeyskikh i Paleozoiskikh Otlozhenii Yugovostochnoi Chasti Russkoi Platformy)). Mar 64, 12p 18refs
Order from AGI $5.00 in International Geology Review, v. 6, no. 3, p. 519-530

Trans. of A[kademiya] N[auk] SSSR. Izv[estiya]. Ser[iya] Geol[ogicheskaya] 1962 [v. 27] no. 3, p. 30-44.

Solov'ev, O. N., Gainanov, A. G., Andreev, B. A., and Rivosh, L. A.
LARGE-SCALE GEOMAGNETIC FEATURES IN THE REGION OF TRANSITION FROM THE ASIATIC CONTINENT TO THE PACIFIC OCEAN (THREE RUSSIAN PAPERS [WITH COMMENTS])
E. R. Hope, tr. Jun 64, 28p 48refs DSIS T 397 R.
Order from NRC NRC C-4949, NRC C-4925, NRC C-4946

Trans. of Sovetskaya Geologiya (USSR) 1963 [v. 6] no. 2, p. 17-24; no. 3, p. 113-123; Akademiya Nauk SSSR. Doklady, 1963, v. 150, no. 1, p. 140-142.

Stishov, S. M.
PHASE TRANSFORMATIONS IN DEPTHS OF THE EARTH: A HYPOTHESIS (Gipotezy: Fazovye Prevrashcheniya v Glubinakh Zemli)
V. P. Sokoloff, tr. Mar 64, 4p
Order from AGI $5.00 in International Geology Review, v. 6, no. 3, p. 435-438

Trans. of Priroda (USSR) 1962 [v. 51] no, 9, p. 105-108.

Suvorov, A. I.
CONTRIBUTION TO THE DESCRIPTION OF THE AKTAS FAULT ZONE, CENTRAL KAZAKHSTAN (K Kharakteristike Aktasskoi Zony Razlomov v Tsentral'nom Kasakhstane). Mar 64, 12p 8refs
Order from AGI $5.00 in International Geology Review, v. 6, no. 3, p. 507-518

Trans. of #Akademiya] N[auk] SSSR. Izv[estiya]. Ser[iya] Geol[ogicheskaya] 1962 [v. 27] no. 3, p. 17-29.

Vlodarskaya, V. R.
DISTRIBUTION OF CLAY MINERALS IN PALEOZOIC AND MESOZOIC ROCKS, IN CONNECTION WITH THEIR ORIGIN (Nekotorye Zakonomernosti Raspredeleniya Glinistykh Mineralov v Paleozoiskikh i Mezozoiskikh Otlozheniyakh Svyazi s Ikh Genezisom). Jul 64, 5p 5refs.
Order from AGI $5.00 in International Geology Review, 1964, v. 6, no. 7, p. 1305-1309

Trans. of #A[kademiya] N[auk] SSSR. Izv[estiya]. Ser[iya] Geol[ogicheskaya] 1962 [v. 27] no. 9, p. 90-96.

Völz, H. and Schwartz, W.
CRITICAL STUDIES ON THE FOUNDATIONS OF GEOMICROBIOLOGICAL PROSPECTING. 8p (2 figs omitted) 14refs.
Order from SLA $1.10 TT-64-18818

Trans. of Erdöl and Kohle [-Erdgas-Petrochemie] (West Germany) 1958, v. 11 [no. 2] p. 69-72.

Yakovlev, G. F.
REVIEW OF YA. N. BELEVTSEV'S STRUCTURAL CONDITIONS OF THE ORIGIN OF ORE DEPOSITS (O Knige Ya. N. Belevtseva "Struktornye Usloviya Obrazovaniya Rudnykh Mestorozhdenii"). Jul 64, 2p.
Order from AGI $5.00 in International Geology Review, 1964, v. 6, no. 7, p. 1310-1311

Trans. of #A[kademiya] N[auk] SSSR. Izv[estiya]. Ser[iya] Geol[ogicheskaya] 1962 [v. 27] no. 9, p. 109-111 (Original article pub. in Akademiya Nauk URSR, Kiev. [Instytut Geologichnykh Nauk. Trudy. Seriya Geologii Mestorozhdenii Poleznykh Iskopaemykh] 1961 [no. 7, 232p].

Yarosh, A. Ya.
EVALUATION OF THE DEPTH OF PENETRATION OF GRAVITY EXPLORATION DURING RESEARCH FOR ORE DEPOSITS (Otsenka Glubinnosti Gravirazvedki pri Poiskakh Rudnykh Mestorozhdenii)
Joel S. Watkins, tr. Mar 64, 5p 3refs
Order from AGI $5.00 in International Geology Review, v. 6, no. 3, p. 400-404

Trans. of Razvedka i Okhrana Nedr (USSR) 1962 [v. 28] no. 5, p. 36-42.
Another trans. is available from ATS $10.50 as ATS-98Q68R [1963] 7p.

Mineralogy

Borovko, N. N.
ON RELATIONSHIPS BETWEEN THE CONTENT OF NIOBIUM, TANTALUM, THORIUM, AND URANIUM IN RARE-METAL CARBONATITES (O Zavisimosi Mezhdu Soderzhaniem Nb, Ta, U i Th)
V. P. Sokoloff, tr. Mar 64, 5p 7refs
Order from AGI $5.00 in International Geology Review, v. 6, no. 3, p. 430-434

Trans. of Vsesoyuznoe Mineralogicheskoe Obshchestvo. Zapiski (USSR) 1961, v. 90, no. 6, p. 637-642.

Ermolaeva, T. A. and others.
INTERACTIONS BETWEEN GATIONIC SURFACTANTS AND RUTILE TITANIUM DIOXIDE. Jul 64.
Order from TTIS $21.00 TTIS NS 227

Trans. of Lakokrasochnye Mat[erialy i Ikh Primenenie] (USSR) 1964, no. 2, p. 23-26.

Kats, M. Ya. and Belyaeva, L. V.
CERTAIN PHYSICO-CHEMICAL CONSTANTS FOR HEAVY LIQUIDS USED IN THE STUDY OF MINERALS (Nekotorye Fiziko-Khimicheskiye Konstanty Tyazhelykh Zhidkostei, Ispol'zuemykh pri Issledovanii Mineralov). Mar 64, 12p 10refs
Order from AGI $5.00 in International Geology Review, v. 6, no. 3, p. 541-552.

Trans. of #A[kademiya] N[auk] SSSR. Izv[estiya]. Ser[iya] Geol[ogicheskaya] 1962 [v. 27] no. 3, p. 100-113.

Kleshchev, G. V. and others.
THE INFLUENCE OF METAL OXIDES ON THE POLYMORPHIC TRANSFORMATION OF ANATASE TO RUTILE. Jul 64.
Order from TTIS $15.00 TTIS NS 226

Trans. of Lakokrasochnye Mat[erialy i Ikh Primenenie] (USSR) [1964] no. 2, p. 21-23.

Korzhinskii, D. S.
A THEORY OF THE PROCESSES OF MINERAL FORMATION. Vernadskii Lecture (no. 3)
Donald E. McGannon, Jr., tr. Mar 64, 13p 26refs
Order from AGI $5.00 in International Geology Review, v. 6, no. 3, p. 387-399

Trans. of mono. Teoriya Protsessov Mineraloobrazovaniya: Tret'ye Chteniye im. V. I. Vernadskogo, Moscow, 1962, 24p.

Lebedev, V. I.
PLUS- AND MINUS-MINERALS FROM THE VIEWPOINT OF THE LAW OF VOLUMES AND OF THE SECOND CHAPTER OF THE CRYSTAL CHEMISTRY OF SILICATES (O Plyus- i Minus-Mineralakh s Tochki Zreniya Zakona ob"emov i Printsipov Vtoroi Glavy Kristallokhimii Siligatov)
V. P. Sokoloff, tr. Mar 64, 9p 41refs
Order from AGI $5.00 in International Geology Review, v. 6, no. 3, p. 450-458

Trans. of Leningrad U. Vestnik (USSR) 1962 [v. 17] no. 6, Seriya Geologii i Geografii, no. 1, p. 36-46.

Romanova, Mariya Andreevna.
AIR SURVEY OF SAND DEPOSITS BY SPECTRAL LUMINANCE. 1964, 158p.
Order from CB $22.50

Trans. of mono. [Opredelenie Tipovogo Sostava Peschanykh Otlozhenii s Vozdukha po Ikh Spektral'noi Yarkosti: Metody Izmereniya i Geologicheskaya Interpretatsiya, Leningrad, 1962 [246p].

Skripchenko, N. S.
CONTRIBUTION TO THE DISCUSSION OF THE ORIGIN OF COPPER PYRITE DEPOSITS IN THE NORTH CAUCASUS (K Diskussii o Genezise Medno-Kolchedannykh Mestorozhdenii Severnogo Kavkaza).
Mar 64, 2p 6refs
Order from AGI $5.00 in International Geology Review, v. 6, no. 3, p. 553-554

Trans. of #A[kademiya] N[auk] SSSR. Izv[estiya]. Ser[iya] Geol[ogicheskaya] 1962 [v. 27] no. 3, p. 120-121.

Sobolev, V. S. and Godovikov, A. A.
THE PRESENT STATE OF EXPERIMENTAL MINERALOGY AND PETROGRAPHY: SOME RESEARCH PROBLEMS (Zadachi Issledovanii po Eksperimental'noi Mineralogii i Petrografii na Sovremennom Etape)
Mark E. Burgunker, tr. Mar 64, 9p 51refs
Order from AGI $5.00 in International Geology Review, v. 6, no. 3, p. 478-486

Trans. of Geologiya i Geofizika (USSR) 1962, no. 10, p. 93-103.

Tvalchrelidze, G. A.
METALLOGENIC FEATURES OF CERTAIN ELEMENTS OF GEOSYNCLINAL PROVINCES (Metallogenicheskiye Osobennosti Nekotorykh Elementov Geosinklinal'nykh Oblastei). Mar 64, 12p 66refs
Order from AGI $5.00 in International Geology Review, v. 6, no. 3, p. 495-506

Trans. of #A[kademiya] N[auk] SSSR. Izv[estiya]. Ser[iya] Geol[ogicheskaya] 1962 [v. 27] no. 3, p. 3-16.

Oceanography

Karaushev, A. V. Abakumov, V. I., and Markus, B. K.
AN APPROXIMATE METHOD OF COMPUTING SEDIMENTATION RATES IN A SEAWAY (Priblizhennii Metod Rascheta Sanosimosti Morskikh Kanalov)
Mark E. Burgunker, tr. Mar 64, 4p 3refs
Order from AGI $5.00 in International Geology Review, v. 6, no. 3, p. 487-490

Trans. of Akademiya Nauk SSSR. Okeanograficheskaya Komissiya. Trudy [1961] v. 8, p. 109-113.

Klenova, M. V. and Zenkevich, N. L.
GEOLOGICAL STUDIES IN THE WESTERN PART OF THE NORTH ATLANTIC (Geologicheskie Raboty v Zapadnoi Chasti Severnoi Atlantiki). [78p] (figs tables omitted) 10refs
Order from OTS or ETC HC $3.00 MF $1.00
TT-64-19360

Trans. of [Akademiya Nauk SSSR]. Morskoi Gidrofizicheskii Institut. Trudy [1962] v. 25, p. 142-186. Another trans. is available from AGU $16.00/year in Soviet Oceanography, 1962, no. 1.

Sorokin, Yu. I. and Klyashtorin, L. B.
PRIMARY PRODUCTION IN THE ATLANTIC OCEAN (Pervichnaya Produktsiya v Atlanticheskom Okeane) W. E. Ricker, tr. Apr 64 [24p] 18refs FRBC Trans. Series no. 421.
Order from NRC NRC C-4657

Trans. of Vsesoyuznoe Gidrobiologicheskoe Obshchestvo. Trudy (USSR) 1961, v. 11, p. 265-284.

Sysoev, N. N.
THE INTERNATIONAL OCEANOLOGICAL EXPEDITION IN THE INDIAN OCEAN. 5 Aug 64, 17p 11refs JPRS: 25729.
Order from OTS HC $1.00 MF $0.50 TT-64-41000

Trans. of Geofizicheskii Byulleten' (USSR) 1963, no. 13, p. 18-28.

Physics of the Atmosphere

Kazanskii, A. B. and Monin, A. S.
THE DETERMINATION OF TURBULENT FLOWS OF MOMENTA, HEAT AND MOISTURE FROM GRADIENT MEASUREMENT DATA (Opredelenie Turbulentnykh Potokov Kolichestva Dvizheniya, Tepla i Vlagi po Dannym Gradientnykh Izmerenii)
E. K. Wilip, tr. Apr 64 [7p] 4refs.
Order from OTS or ETC HC $1.00 ANL-Trans-12

Trans. of Meteorologiya i Gidrologiya (USSR) 1962, no. 12, p. 3-8.
Another trans. is available from OTS $2.50 in TT-63-21328, JPRS-18141, 14 Mar 63 [117p].

Obukhov, A. M.
THE INFLUENCE OF WEAK ATMOSPHERIC INHOMOGENETTIES UPON THE PROPAGATION OF SOUND AND LIGHT [O Vliyanii Slabykh Neodmorodnostei Atmosfery na Rasprestranenie Zvuka i Sveta] W. C. Hoffman, tr. 28 Jul 55 [22p] 11refs T-47; AD-604 758.
Order from OTS HC $1.00, MF $0.50 TT-64-71252

Trans. of Akad[emiya] Nauk SSSR. Izvestiya. [Seriya Geofizicheskaya] 1953, no. 2, p. 155-165.
Also available from SLA as R-3407; in Dutch from ETC $1.80 as TT-61-17395, MTWL-821, 18p.

Volkonskii, Yu. N.
CONCERNING THE ACCURACY OF DETERMINING THE POSITION OF THE TROPOPAUSE (O Tochnosti Opredeleniya Polozheniya Tropopauzy) David Kraus, tr. Dec 63 [6p] AmMetSoc-T-R-421; AD-602 148.
Contract AF19 604 6113.
Order from OTS HC $1.00 MF $0.50 TT-64-11820
Trans. of Problemy Arktiki (USSR) 1958, no. 3, p. 109-110.

Seismology

Lavergne, M.
STUDY ON AN ULTRASONIC MODEL OF THE PROBLEM OF THIN LAYERS IN SEISMIC REFRACTION. 14p 18refs.
Order from SLA $1.60 TT-64-16975

Trans. of Geophysical Prospecting (Netherlands) 1961, v. 9, no. 1, p. 60-73.

Menzel, Heinz and Rosenbach, Otto.
THEORETICAL INVESTIGATIONS CONCERNING THE INFLUENCE OF THE WEATHERING LAYER ON THE SPECTRUM OF ELASTIC WAVES IN REFLECTION SEISMOLOGY. 19p.
Order from SLA $1.60 TT-64-18095

Trans. of Geophysical Prospecting (Netherlands) 1957, v. 5 [no. 3] p. 328-348.
Another trans. is available from ATS $24.80 as ATS-26N49G.

ENGINEERING

EAST EUROPEAN SCIENTIFIC ABSTRACTS: ELECTRONICS AND ENGINEERING NO. 28. 7 Jul 64, 5p JPRS: 25365.
Order from OTS HC $0.50 MF $0.50 TT-64-31638

Abstract trans. of Automatizace (Czechoslovakia) 1964, v. 7, no. 4, p. 85-102, 107-109; no. 5, p. 113-133.

USSR COMMUNICATIONS: TRANSLATIONS NO. 45. 8 Jul 64, 20p JPRS: 25389.
Order from OTS HC $0.75 MF $0.50 TT-64-31662

Trans. of 11 selected articles from Apr-May 64 issues of various Russian journals and newspapers.

Bogomolov, G. V., Korzhuev, A. S., and Kudryavtseva.
PROCESS FOR SOIL CONSOLIDATION. 2p.
Order from ATS $3.25 ATS-41R77R

Trans. of Soviet patent 100,527, filed 18 Nov 43 under no. 24,292/324,470.

Fahrenbach, W.
THE DYNAMICS OF DUST AND ITS INFLUENCE ON THE MEASUREMENTS OF DUST CONTENT (Die Dynamik des Staubes und ihr Einfluss auf die Staubgehaltmessungen).
[44p] 14refs (foreign text included).
Order from SLA $4.60 TT-64-16996

Trans. of Forschung [auf dem Gebiete des Ingenieurwesens] (Germany) 1931, v. 2, no. 11, p. 395-407.

Matting, Alexander and Jacoby, Gerhard.
TEST OF OPERATIONAL STRENGTH WITH PROGRAMME-CONTROLLED HYDRAULIC TESTING MACHINES: SECTS. 7-8 (Betriebsfestigkeitsprüfung mit Programmgesteuerten Hydraulischen Schwingprüfmaschinen). [19p] (foreign text included) 51refs.
Order from SLA $1.60 TT-64-18357

Partial trans (p. 127-128) of Materialprüfung (West Germany) 1962, v. 4, no. 4, p. 117-128.

Zimmermann, E.
MEASUREMENT OF FLY ASK IN FLUE GASES (Messung von Flugstaub in Rauchgasen). [33p] (foreign text included) 3refs.
Order from SLA $3.60 TT-64-16997

Trans. of Verein Deutscher Ingenieure. Zeitschrift (Germany) 1931, v. 75, no. 16, p. 481-486.
Another trans. is available from SLA as I-879 (32)p.

Aeronautical Engineering

Alekseev, S. M., Balkind, Ya. V. and others.
CONTEMPORARY MEANS FOR EMERGENCY ABANDONMENT OF AIRCRAFT, CHAPS. 1, 9-10.
2 Jun 64 [208p] refs FTD-TT-63-420; AD-602 689.
Order from OTS HC$6.00, MF$1.25 TT-64-71121

Unedited rough draft trans. of mono. Sovremennye Sredstva Avariinogo Pokidaniya Samoleta, Moscow, 1961, p. 5-23, 307-431.

Korolev, A. I. and Vinogradov, A. S.
IMPACT ACTUATED MECHANISM FOR ENGAGING FIRE EXTINCTION SYSTEMS. 11 Jun 64 [6p]
FTD-TT-64-180; AD-602 309.
Order from OTS HC $1.00, MF $0.50 TT-64-11844

Unedited rough draft trans. of Russian patent 157887, appl. 806537/40-23, 3 Dec 62.

Rusyantsev, Yu.
RED STAR ON REFUELING AIRCRAFT IN THE AIR
F. J. Krieger, tr. 5 Jul 55, 8p T-46; AD-604 757.
Order from OTS HC $1.00 MF $0.50 TT-64-71251

Trans. from Krasnaya Zvezda (USSR) 1955, 31 May, p. 3.
Also available from SLA as R-3593.

Vanyashin, D. I.
AIRFIELD BRAKE INSTALLATION. 8 Jul 64 [5p]
FTD-TT-64-67; AD-603 000.
Order from OTS HC $1.00, MF$0.50 TT-64-71151

Unedited rough draft trans. of Russian patent 155102 (appl. no. 746471/40-23, 29 Sep 61).

Woyczechowski, Feldinger, and Kalinowski.
COLLECTION OF SOME GERMAN DATA ON SPECIAL TYPE LANDING GEARS: [SEVEN PAPERS]
Kalus G. Liebhold, tr. 1 Aug 47 [32p] T-2; AD-604 788.
Order from OTS HC $1.00, MF $0.50 TT-64-71282

Trans. of abstracts from unidentified German sources, n.p., n.d.
Also available from SLA as 58-823, 25p.

Chemical Engineering

CHEMICAL SCIENCE IN HIGHER EDUCATIONAL INSTITUTIONS. 21 Jul 64, 6p JPRS: 25532.
Order from OTS HC $0.50 MF $0.50 TT-64-31804

Trans. of Vestnik Vysshei Shkoly (USSR) 1964 [v. 22] no. 2, p. 3-6.

PROCESS FOR THE CONVERSION OF FUSED MATERIALS INTO FINELY DIVIDED PARTICLES. 5p.
Order from SLA $1.10 TT-64-18458

Trans. of Swiss patent 206,995, pub. 1 Dec 39.

USSR INDUSTRIAL DEVELOPMENT: SOVIET CHEMICAL INDUSTRY NO. 165. 2 Jul 64, 20p JPRS: 25341.
Order from OTS HC $0.75 MF $0.50 TT-64-31614

Consists of 5 articles from Mar/Apr 64 issues of Russian journals and newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET CHEMICAL INDUSTRY NO. 166. 10 Jul 64, 15p JPRS: 25426.
Order from OTS HC $0.50 MF $0.50 TT-64-31699

Trans. of selected articles and news briefs from May-Jun 64 issues of various Russian journals and newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET CHEMICAL INDUSTRY NO. 170. 30 Jul 64, 28p JPRS: 25659.
Order from OTS HC $2.00 MF $0.50 TT-64-31931

Trans. of 6 selected articles from Mar-May 64 issues of various Russian journals and newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET CHEMICAL MACHINE BUILDING NO. 47. 13 Aug 64, 15p JPRS: 25907.
Order from OTS HC $1.00, MF $0.50 TT-64-41178

Consists of 4 articles from Jan-Apr 64 issues of Russian newspapers and journals.

Abe, Kazuo.
METHOD OF SYNTHESIZING UREA. Jun 64, 13p.
Order from SA $22.00 SA Code P-310

Trans. of published Japanese patent 5269/1963, appl. 39075/1960 (division of appl. 37804/1959) 31 Aug 59, pub. 7 May 60, by Nippon Plant Society, Inc.

Anders, Heinz.
STUDIES OF THE DEPHENOLATION OF CARBONIZATION WATER BY MEANS OF WOFATIT, THE REGENERATION OF THE FILTER, AND THE RESULTS OF PHENOL AND FATTY ACID REMOVAL FROM THE LIQUOR. 17p (12 figs omitted) 1ref.
Order from SLA $1.60 TT-64-18872

Trans. of [GWF] das Gas-und Wasserfach (West Germany) 1951, v. 92, no. 17, p. 238-242.

Barth, Walter.
PROGRESS IN PURIFICATION OF EXHAUST GASES IN THE METAL SMELTING INDUSTRY: THE PHYSICAL PRINCIPLES OF DUST-EXTRACTION. Paper [presented] at the General Assembly of the Society of German Metal Smelters and Mining Engineers, Munich, 4 Sep 54. 12p (1 fig omitted) 7refs.
Order from SLA $1.60 TT-64-16210

Trans. of [Zeitschrift für Erzbergbau und Metallhüttenwesen] (West Germany) 1955, v. 8, no. 3, p. 101-104.

Bock, Rudolf,
EXTRACTION OF BROMINE FROM SEAWATER. 15p (9 figs omitted) 8refs.
Order from SLA $1.60 TT-64-18847

Trans. of Chem[ie]-Ing[enieur]-Techn[ik] (West Germany) 1953, v. 25 [no. 5] p. 245-248.

Cathala, J.
DIRECT PRODUCTION OF SULFURIC ANHYDRIDE ON A TECHNICAL SCALE (Direkte Herstellung von Schwefelsaure-Anhydrid im Technischen Massstab). [29p] (foreign text included) 5refs.
Order from SLA $2.60 TT-64-18855

Trans. of Chemie-Ing[enieur]-Techn[ik] (West Germany) 1953, v. 25, no. 6, p. 285-291.

Chevalier, P. J.
PROCESS FOR THE PREPARATION OF AQUEOUS ORGANOPOLYSILOXANE EMULSIONS WITH IMPROVED DEFOAMING PROPERTIES. 6p.
Order from SLA $1.10 TT-64-18057

Trans. of German patent 1,110,862, by Societe Usines Chimiques, filed 18 Feb 60, pub.13 July 61.

Dognola, Franco and Piacenza, Mario.
PROCESS FOR THE PREPARATION OF ADIPIC ACID FROM ETHYLENE. 5p.
Order from SLA $1.10 TT-64-18892

Trans. of Italian patent 431,407, cl. XXIV. filed 28 June 47, pub. 27 Feb 48.

Fedorenko, N., Bain, A., and Leonidov, D.
THE PROBLEM OF THE DISTRIBUTION OF THE CHEMICAL INDUSTRY [AND] MODIFICATIONS BY ENTHUSIASTS. USSR Industrial Development: Soviet Chemical Industry no. 168. 16 Jul 64, 21p JPRS: 25491.
Order from OTS HC $0.75 MF $0.50 TT-64-31763

Trans. of Planovoe Khozyaistvo (USSR) 1964 [v. 41] no. 5, p. 24-32; Nauka i Tekhnika (Latvian SSR) 1964, no. 4, p. 34-35.

Gelpi, L. and Imbert, P.
THE USE OF TANNING IN DRILLING MUDS. 6p.
Order from SLA $1.10 TT-64-18800

Trans. of Chimie et Industrie (France) 1958, v. 79, no. 1, p. 11-14.

Gignier, J.
GENERAL DATA ON REACTORS CALCULATION TAKEN FROM A FEW PRACTICAL EXAMPLES. [Presented at the European Conference of "Genie Chimique", Paris, 23 Nov 56. 20p.
Order from SLA $1.60 TT-64-18093

Trans. of Génie Chimique (France) 1957, v. 78, no. 2, p. 33-45.

Grigor'eva, K. and Yakovchuk, N.
NEVINNOMYSSK CHEMICAL COMBINE [AND] COMPARISON OF PERFORMANCE OF RYAZAN' ARTIFICIAL FIBER PLANT AND BARNAUL CHEMICAL FIBER PLANT. USSR Industrial Developments: Soviet Chemical Industry no. 173. 7 Aug 64, 17p JPRS: 25790.
Order from OTS HC $1.00 MF $0.50 TT-64-41061

Trans. from Pravda, Leningrad (USSR) 1964, 30 May, p. 2; Ekonomicheskaya Gazeta (USSR) 1964, no. 21[146] p. 17-18.

Grimm, H.
PROCESS FOR PREVENTION AND DESTRUCTION OF FOAM IN LIQUIDS USED FOR GAS PURIFICATION. 4p.
Order from SLA $1.10 TT-64-18039

Trans. of German patent 717,078, by I. G. Farbenindustrie A. G., pub.5 Feb 42.

Hansen, Theodor.
PURIFICATION OF EXHAUST GASES BY FILTERS. 8p (1 fig omitted).
Order from SLA $1.10 TT-64-16197

Trans. of [Zeitschrift für Erzbergbau und Metallhüttenwesen] (West Germany) 1955, v. 8, no. 3, p. 104-106.

Honda, Seiichi and Doi, Kenji.
PROCESS FOR MANUFACTURING NITRIC ACID. Jun 64, 8p.
Order from SA $19.00 SA Code-P-318

Trans. of published Japanese patent 13853/1963, cl. 1, 2, 15 B 251, appl. no. 22722/1961, 29 Jun 61, pub. 1 Aug 63, by Asahi Chemical Industry Co., Ltd.

Kirschbaum, E., Busch, W., and Billet, R.
RECTIFICATION IN PACKED TOWERS AT ATMOSPHERIC PRESSURE AND AT REDUCED PRESSURES. 22p (14 figs omitted) 11refs.
Order from SLA $2.60 TT-64-18362

Trans. of Chemie-Ing[enieur]-Technik (West Germany) 1956, v. 28, no. 7, p. 475-480.
Another trans. is available from K-H $22.00 as K-H 5486a, 22p.

Kuck, Conrad Hermann.
OPTIMIZATION OF REFINERY PRODUCTION SCHEDULING AND CONTROL BY USE OF COMPUTERS. 11p 3refs.
Order from SLA $1.60 TT-64-18767

Trans. of Erdöl und Kohle[-Erdgas-Petrochemie] (West Germany) 1963, v. 16, no. 11, p. 1116-1119.

Kudryavtsev, A.
THE RESERVES OF ACCELERATION OF DEVELOPMENT OF THE CHEMICAL INDUSTRY. USSR Industrial Development: Soviet Chemical Industry no. 174. 12 Aug 64, 16p JPRS: 25868.
Order from OTS HC $1.00 MR $0.50 TT-64-41139

Trans. of Planovoe Khozyaistvo (USSR) 1964 [v. 41] no. 6, p. 11-21.

Lowenberg, Merseburg, Sattler, and Scholler.
DEFOAMER. 5p
Order from SLA $1.10 TT-64-18038

Trans. of German patent 704,862, n.d.

Masaki, Sumi and Fujiwara, Yasuo.
METHOD FOR THE SEPARATION AND RECOVERY OF PALLADIUM CHLORIDE AND CUPRIC CHLORIDE. 6p.
Order from SA $16.00 SA Code-P-348

Trans. of published Japanese patent 13,354/1963, 27 Jul 63, cl. 15-E-2 (13-F-5) appl. no. 28,749/1960, 24 Jun 60, by Nippon Sekiyu Co., Ltd.

Mel'nik, B. D.
THE CAUSES OF EXPLOSIONS IN THE PURIFICATION OF HYDROGEN WITH LIQUID NITROGEN (O Prichinakh Vzryvov pri Ochistke Vodoroda Zhidkim Azotom). Jul 64 [12p] 9refs RTS-2546.
Order from OTS or ETC HC $1.00, MF $0.50 TT-64-19382

Trans. of Khimicheskaya Promyshlennost' (USSR) 1962, no. 9, [p. 625-630].

Miyoshi, Shigeyoshi, Yamamoto, Yorihiko, and Watanabe, Kinya.
PROCESS FOR MANUFACTURE OF ARTIFICAL CRYOLITE. Jun 64, 4p.
Order from SA $16.00 SA Code-P-319

Trans. of published Japanese patent 16854/1963, cl. 15-E-242, appl. no. 21430/1961, 13 Jun 61, pub. 3 Sep 63, by Osaka Kinzoku Kogyo Co., Ltd.

Nagiev, M. F.
THE THEORY OF RECYCLE PROCESSES IN CHEMICAL ENGINEERING. International Series of Monographs on Chemical Engineering, v. 3
R. Hardbottle, tr. 1964, 278p.
Order from MACM $15.00

Trans. of mono. [Uchenie o Retsikulyatsionnykh Protsessakh v Khimicheskoi Tekhnologii] Moscow, 1958.

Nasini, A. and Mussa, C.
CONCERNING SOME FRACTIONATIONS OF HIGH PRESSURE POLYETHYLENE: FRACTIONAL PRECIPITATION WITH POLYOXYETHYLENE GLYCOL. 3p 3refs.
Order from SLA $1.10 TT-64-16820

Partial trans. (p. 62-24) of Makromolekulare Chemie (Switzerland) 1957, [v. 22, no. 1/2] p. 59-80
Complete trans. is available from SLA $6.30 as TT-60-14117 (34)p.

Rumpelt, H.
APPARATUS COMBINATIONS FOR THE MECHANICAL SEPARATION OF SOLIDS FROM SUSPENSIONS. 3p (3 figs omitted).
Order from SLA $1.10 TT-64-18796

Trans. of Chem[ie]-Ing[enieur]-Tech[nik] (West Germany) 1958, v. 30, no. 4, p. 226-[228].

Schmid, C.
NEWER INVESTIGATIONS ON THE PROBLEM OF HEAVY OIL RECOVERY FROM SANDY DEPOSITS. II. USE OF HEAT AND SOLVENTS. 9p 12refs.
Order from SLA $1.10 TT-64-18817

Trans. of Erdöl und Kohle[-Erdgas-Petrochemie] (West Germany) 1958, v. 11, no. 2, p. 72-75.
Other trans. are available from SLA $1.60 as TT-62-18522 [14p] and from ATS as ATS-89K24G [8p].

Sherwood, Peter W.
NEW REFINERY USES FOR MOLECULAR SIEVES. 9p 15refs.
Order from SLA $1.10 TT-64-18770

Trans. of Erdöl und Kohle]-Erdgas-Petrochemie] (West Germany) 1963, v. 16 [no. 8] p. 843-846.

Shidlovskii, A. A.
FOUNDATIONS OF PYROTECHNICS. 30 Apr 64 [39p] 97refs FTD-TT-63-758; AD-602 687.
Order from OTS HC $7.39, MF $2.00 TT-64-71119

Unedited rough draft trans. of mono. Osnovy Pirotekhniki, Moscow, 1954, 284p.

Snarskii, A. N.
ON ONE ERRONEOUS ESTIMATION OF HEAT APPLICATION POSSIBILITIES IN STRATUM. 6p.
Order from SLA $1.10 TT-64-18507

Trans. of Neftyanoe Khozyaistvo (USSR) 1957 [v. 35] no. 7, p. 31-35.
Another trans. is available from ETC $1.55 as TT-61-17361, MTWL-839, 9p.

Stamm, H. and Arens, H.
DEFOAMER. 4p.
Available on loan from SLA TT-64-18819

Trans. of German patent 939,266, by Th. Goldschmidt A.G., Essen, pub. 16 Feb 56.

Trawinski, H.
APPROXIMATE EQUATIONS FOR CALCULATION OF IMPORTANT OPERATING DATA FOR HYDROCYCLONES CENTRIFUGES. 25p 16refs.
Order from SLA $2.60 TT-64-18816

Trans. of Chemie-Ing[enieur]-Techn[ik] (West Germany) 1958, v. 30 [no. 2] p. 85-95.
Another trans. is available from SLA as 58-2681 [21 p].

Yusupov, Ya. Yu.
SCHEME FOR PETROLEUM AND GAS COLLECTION BY APPLICATION OF GAS STREAM EJECTORS. 3p.
Order from SLA $1.10 TT-64-18506

Trans. of Neftyanoe Khoz[yaistvo] (USSR) 1957 [v. 35] no. 7, p. 45-[46].

Civil Engineering

Föppl, L. and Hiltscher, R.
THE NEW PHOTOELASTIC APPARATUS AT THE MECHANICAL TECHNICAL LABORATORY OF THE MUNICH ADVANCED TECHNICAL SCHOOL. 24 Jul 64, 7p 3refs RSIC-232; AD-604 331.
Order from OTS HC $1.00, MF $0.50 TT-64-71234

Trans. of der Bauingenieur (Germany) 1939, v. 20, no. 17/18, p. 231-232.

Kobrin, M. M. and Sverchkov, A. G.
EFFECT OF COMPONENT ELEMENTS OF DEFORMATION PATTERNS ON THE FATIGUE STRENGTH OF BAR REINFORCEMENT. 19p 8refs.
Order from SLA $1.60 TT-64-18002

Trans. of mono. [Eksperimental'no- Teoreticheskie Issledsvaniya Zhelezobetonnykh Konstruktsii] (Experimental and Theoretical Investigations of Reinforced Concrete Structures) edited by A. A. Gvozdev, Moscow, 1963, p. 45-63.

Rudeloff, M. and Sieglerschmidt, H.
INVESTIGATION OF THE CHANGES IN LENGTH OF CONCRETE PRISMS DURING HARDENING AND CONSEQUENT TO TEMPERATURE CHANGE. 3p.
Order from SLA $1.10 TT-64-18266

Partial trans. (summary only) of Royal Materials Testing Bureau, Berlin-Lichterfelde-West (Germany). Rept-23, published by the German Commission for Reinforced Concrete, Berlin, 1913.

Strelchuk, N., Yakovlev, A., and Bubyr, N.
FIRE RESISTANCE OF REINFORCED CONCRETE TRUSSES. 6p.
Order from SLA $1.10 TT-64-18008

Trans. of mono. Fire Affairs, Moscow, 1963, p. 9-11.

Electrical and Electronic Engineering

COMMUNIST CHINESE SCIENTIFIC ABSTRACTS NO. 55. 16 Jun 64, 3p JPRS: 25106.
Order from OTS HC $0.50 MF $0.50 TT-64-31495

Trans. of selected abstracts from Referativnyi Zhurnal. Elektrotekhnika (USSR) 1963, no. 12; Referativnyi Zhurnal. Radiotekhnika i Elektrosvyaz' (USSR) 1964, no. 3.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: ELECTRONICS AND ENGINEERING NO. 29. 9 Jul 64, 5p JPRS: 25407.
Order from OTS HC $0.50 MF $0.50 TT-64-31680

Abstract trans. of Telecomunicatii (Rumania) 1964, v. 8, no. 2, p. 49-85.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: ELECTRONICS AND ENGINEERING NO. 30. 22 Jul 64, 20p JPRS: 25540.
Order from OTS HC $0.75 MF $0.50 TT-64-31812

Consists of abstracts of articles from the scientific and technical journals of Czechoslovakia, Hungary, and Poland.

MULTIPLE RAPID ELECTRIC CONNECTOR (Attacco Elettrico Multiplo e Rapido). 6p (original text included).
Order from SLA $1.10 TT-64-18107

Trans. of Italian patent 514,965, cl. IX, by Societa Impianti Elettro Meccanici, Italy, filed 14 Apr 54, pub. 11 Feb 55.
Another trans. is available from OTS or ETC $1.00 as TT-63-24125 (3)p.

THE UNIVERSE ON A PICTURE SCREEN. 8 Jul 64 [4p] FTD-TT-64-78; AD-602 688.
Order from OTS HC $1.00, MF $0.50 TT-64-71120

Unedited rough draft trans. from Berliner Zeitung (East Germany) 1963, 5 Apr, P. 5.

USSR INDUSTRIAL DEVELOPMENT: SOVIET ELECTRICAL EQUIPMENT NO. 94. 11 Aug 64, 32p JPRS: 25834.
Order from OTS HC $2.00 MF $0.50 TT-64-41105

Trans. of 46 selected articles and news briefs from May-Jul 64 issues of various Russian journals and newspapers.

USSR SCIENTIFIC ABSTRACTS: ELECTRONICS AND ENGINEERING NO. 10. 20 Jul 64, 77p JPRS: 25520.
Order from OTS HC $2.00 MF $0.75 TT-64-31792

Consists of abstracts of articles from USSR scientific and technical journals.

Ball, G. O.
AUTOMATIC COMPUTATION OF CORRELATION FUNCTIONS IN THE CASE OF NONUNIFORM TRAVEL OF SIGNAL-CARRYING TAPE. 11 Aug 64 [20p] 10refs FTD-TT-64-294; AD-604 342.
Order from OTS HC $1.00 MF $0.50 TT-64-71237

Unedited rough draft trans. of Avtomatyka (USSR) 1963 [v. 8] no. 3, p. 47-58.

Belyanin, Yu. P.
METHOD OF PHASE SELF-ALIGNMENT OF FREQUENCY. 7 Jul 64 [5p] FTD-TT-64-352; AD-602 630.
Order from OTS HC $1.00, MF $0.50 TT-64-11978

Unedited rough draft trans. of Russian patent 155,181, appl. no. 670,792/26, 21 Jul 60.

Ben'yaminovich, M. B. and Veksler, V. I.
INVESTIGATION OF ENERGY DISTRIBUTION OF PRODUCTS OF CATHODE SPUTTERING OF METALS BY MERCURY IONS. 21 Jul 64 [17p] 15refs FTD-TT-64-542; AD-603 061.
Order from OTS HC$1.00, MF$0.50 TT-64-71139

Unedited rough draft trans. of A[kademiya] N[auk] Uzbekskoi] SSR [Tashkent]. Izvestiya. Seriya Fiziko-Matematicheskikh Nauk, 1963 [v. 7] no. 3, p. 29-36.

Borzyak, P. G. and Morozovskii, V. A.
PHOTOCATHODE. 8 Jul 64 [5p] FTD-TT-64-98; AD-603 001.
Order from OTS HC $1.00, MF $0.50 TT-64-71152

Unedited rough draft trans. of Russian patent 154567 (appl. no. 429425/01147, 28 Dec 51).

Dahlquist, Evald.
ELECTROFILTERS. 29p (26 figs omitted)
Order from SLA $2.60 TT-64-16201

Trans. of Teknisk Tidskrift (Sweden) 1943, v. 73, no. 7, p. E10-E125.

Dlouhy, F. and Schütze, H. J.
EMISSION FROM OXIDE-COATED CATHODES DURING THE ACTIVATION AND AGEING OF ELECTRON TUBES. 33p.
Order from SLA $3.60 TT-64-18418

Trans. of Telefunken-Röhre (Germany) 1961, no. 39, p. 121-159.

Domanova, E. A. and Valitov, R. A.
WAVEGUIDE SWITCH. 8 Jul 64 [6p] FTD-TT-64-367; AD-602 631.
Order from OTS HC $1.00, MF $0.50 TT-64-11979

Unedited rough draft trans. of Russian patent 156,193, appl. no. 631,268/26, 18 Jun 59.

Gruich, D. D., Rakhimbaeva, N., Ikramov, G., and Arifov, T.
INVESTIGATION OF THE SECONDARY ION EMISSION DURING THE BOMBARDMENT OF METALS BY LOW-ENERGY IONS. 14 Jul 64 [15p] 11refs FTD-TT-64-544; AD-602 878.
Order from OTS HC$1.00, MF$0.50 TT-64-711

Unedited rough draft trans. of Akademiya Nauk Uzbekskoi SSR [Tashkent]. Izvestiya. Seriya Fiziko-Matematicheskikh Nauk, 1964 [v. 8] no. 1, p. 53-60.

Kashin, N. V.
MECHANIZATION AND AUTOMATION IN RADIO-COMPONENT MANUFACTURE. 1964, 208p 25refs PL-480 Comm.
Order from OTS HC $2.25 MF $1.50 TT-63-11001

Trans. of mono. Mekhanizatsiya i Avtomatizatsiya Proizvodstva Radiodetalei, Leningrad, 1960 [265p].

Krivoshchekov, G. V. and Kalistratova, I. N.
SOME CHARACTERISTICS OF A PLASMA PENETRATING BEYOND THE LIMITS OF THE DISCHARGE SPACE. 14 Jul 64 [7p] FTD-TT-64-587; AD-602 880.
Order from OTS HC$1.00, MF$0.50 TT-64-711

Unedited rough draft trans. of Akademiya Nauk SSSR. Sibirskoe Otdelenie. Izvestiya, 1963, no. 6, Seriya Tekhnicheskikh Nauk, no. 2, p. 121-123.

Kutsevalov, V. M.
METHOD FOR CALCULATING THE CHARACTERISTICS OF AN INDUCTION MOTOR WITH SOLID ROTOR
R. Kent, tr. [13p] 6refs.
Order from OTS or ETC HC $1.00 AEC-tr-6400

Trans. of Russian language article from unidentified source, n.d.

Lin, Lan-ying.
HIGH TEMPERATURE SEMICONDUCTOR MATERIALS.
10 Jun 64, 10p JPRS: 25016 (p. 19-28).
Order from OTS HC $1.00 MF $0.50 in TT-64-31451 (p. 19-28)

Trans. of K'o Hsüeh T'ung Pao (Chinese People's Republic) 1964, no. 3, p. 231-236.

Prache, P. M.
HIGH-FREQUENCY INDUCTANCE COILS AND TRANSFORMERS (Bobines d'Inductance et Transformateurs pour Lautes Fréquences). 85p 25refs.
Order from SLA $8.10 TT-64-18105

Trans. of Câbles [et] Transmission (France) 1950, v. 4, no. 2, p. 89-125.

Mechanical Engineering

Anempodistov, V. P., Kasharskii, E. G., and Urusov, I. D.
PROBLEMS IN THE DESIGN AND DEVELOPMENT OF 750 MW TURBOGENERATORS. International Series of Monographs on Electronics and Instrumentation, v. 18
O. M. Blunn, tr. 76p.
Order from MACM $4.50

Trans. of unidentified Russian mono., n.p., n.d.

Glaser, H.
EXPERIMENTS ON DISK TYPE REGENERATORS. 15p.
Order from SLA $1.60 TT-64-18183

Trans. of unidentified German report, n.d., n.p.

Ordnance, Missiles, and Satellite Vehicles

STATIONS IN SPACE: SELECTED ARTICLES.
10 Feb 64 [65p] FTD-TT-63-1041.
Order from OTS or ETC HC $3.00 MF $0.75 TT-64-15231

Unedited rough draft trans. of mono. Stantsii v Kosmose: Sbornik Statei, Moscow, 1960, p. 42-46, 49-54, 66-68, #214-229, 234-238, 259-264, 272-275, 284-288, 291-299, 376-380.
#Another trans. is available from OTS or ETC $1.00 as TT-62-13553, 16 Nov 61 [15p].

Anureev, I.
IMPERIALIST AGGRESSION IN SPACE (Imperialisticheskaya Agressiya v Kosmose)
H. H., tr. 19 Jun 63 [8p] I-2487.
Order from OTS or ETC HC $1.00 MF $0.50 TT-64-19368

Trans. of Kommunist Vooruzhennykh Sil (USSR) [1962, v. 2] no. 15, p. 17-23.

Lakhtin, L. M.
FREE MOTION IN THE FIELD OF THE EARTH'S SPHEROID
M. D. Friedman, tr. 1964 [97p] 23refs.
Order from MDF $10.00

Trans. of mono. [Svobodnoe Dvizhenie v Pole Zemnogo Steroida] Moscow, 1963 [120p].

Librovich, V. B.
THE IGNITION OF POWDERS AND EXPLOSIVES
D. J. Frendzel, tr. Jun 64 [10p] 8refs.
Order from OTS or ETC HC $1.00, MF $0.50 TT-64-19352

Trans. of Zhurnal Prikladnoi Mekhaniki i Tekhnicheskoi Fiziki (USSR) 1963, no. 6, p. 74-79.

Mal'tsev, V. M. and Pokhil, P. F.
DETERMINATION OF THE HEAT EFFECT OF THE INITIAL STAGE OF COMBUSTION OF POWDERS AND EXPLOSIVES
D. J. Frendzel, tr. Jun 64 [5p] 3refs.
Order from OTS or ETC HC $1.00, MF $ 0.50 TT-64-19355

Trans. of Zhurnal Prikladnoi Mekhaniki i Tekhnicheskoi Fiziki (USSR) 1963, no. 2, p. 173-174.

Mityakov, N. A., Mityakova, E. E., and Cherepovitskii, V. A.
RESULTS OF RADAR TRACKINGS OF THE SOVIET SATELLITES "COSMOS I" AND "COSMOS II" IN THE CRIMEA (Rezul'taty Radionablyudenii ISZ "Kosmos I" i "Kosmos II" v Krymu) M. Ricci, tr. Mar 64 [17p] 3refs E-T-R-64-20.
Contract AF19 628 3869.
Order from OTS or ETC HC $1.00, MF $0.50 TT-64-19340

Trans. of #Geomagnetizm i Aeronomiya (USSR) 1963, v. 3, no. 5, p. 816-822.
Another trans. is available from OTS $1.75 in TT-63-41069, JPRS-21739 (p. 1-18)

Nikolaev, A.
RESERVE OF STRENGTH. 17 Jul 64 [11p] FTD FTD-TT-64-160; AD-603 326.
Order from OTS HC $1.00 MF $0.50 TT-64-71157

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

Unedited rough draft trans. of Kryl'ya Rodiny (USSR) 1963 [v. 14] no. 5, p. 3-5.
Another trans. is available from OTS $0.50 as TT-63-31791 rev., JPRS-21146, 28 Oct 63, 5p.

Olisov, B.
RED STAR SERIES ON ATOMIC WEAPONS AND ANTIATOMIC DEFENSE. PT. I. ATOMIC WEAPONS AND ANTIATOMIC DEFENSE
F. J. Krieger, tr. [1955] 10p T-41, pt. 1; AD-604 764.
Order from OTS HC $1.00, MF $0.50 TT-64-71258

Trans. from Krasnaya Zvezda (USSR) 1954, 3 Aug, p. 2.
Also available from SLA as R-3572; another trans. is available from SLA as R-00526, 10p.

Olisov, B.
RED STAR SERIES ON ATOMIC WEAPONS AND ANTIATOMIC DEFENSE. PT. II. ATOMIC WEAPONS AND ANTIATOMIC DEFENSE
F. J. Krieger, tr. [1955] [10p] T-41, pt. 2; AD-604 767.
Order from OTS HC $1.00 MF $0.50 TT-64-71261

Trans. from Krasnaya Zvezda (USSR) 1954, 4 Aug, p. 2.
Also available from SLA as R-3573.

Olisov, B.
RED STAR SERIES ON ATOMIC WEAPONS AND ANTIATOMIC DEFENSE. PT. III. ATOMIC WEAPONS AND ANTIATOMIC DEFENSE
F. J. Krieger, tr. [1955] [10p] T-41, pt. 3; AD-604 768.
Order from OTS HC $1.00 MF $0.50 TT-64-71262

Trans. from Krasnaya Zvezda (USSR) 1954, 6 Aug, p. 2.
Also available from SLA as R-3574.

Pugachev, V. and Marisov, B.
RED STAR SERIES ON GUIDED MISSILES. PT. I. CONSTRUCTION AND METHODS OF APPLICATION
F. J. Krieger, tr. [10p] T-44, pt. 1; AD-604 766.
Order from OTS HC $1.00 MF $0.50 TT-64-71260

Trans. from Krasnaya Zvezda (USSR) 1955, 15 Feb, p. 3.
Also available from SLA as R-3592.

Stanyukovich, K.
PROBLEMS OF INTERPLANETARY FLIGHTS [Problemy Mezhplanetnykh Pereletov]
F. K. Krieger, tr. 15 Nov 54 [10p] T-38; AD-604 515.
Order from OTS HC $1.00 MF $0.50 TT-64-71244

Trans. from Krasnaya Zvezda (USSR) 1954, 10 Aug, p. 3.
Other translations are available from SLA as R-3570, 9p. and RT-2598, 7p.

Vernov, S. N., Skuridin, G. A., and Logachev, Yu.I.
THE "ELECTRON" SPACE SYSTEM. 18p.
Order from SLA $1.60 TT-64-16367

Trans. from Pravda [Moscow] (USSR) 1964, 15 Mar. [p. 3].
Another trans. is available from OTS $0.75 as TT-64-21864, JPRS-23810, 23p.

Ship Building

Arkhangel'skii, B. A. and Al'shits, I. M.
FIBERGLASS BOAT BUILDING. 24 Jul 64, 164p 30refs
JPRS: 25575.
Order from OTS HC $3.00 MF $1.00 TT-64-31847

Trans. of mono. Suda iz Plastmass (Ships Constructed of Plastics Materials) 2d. ed., Leningrad, 1963, 160p.

Belashchenko, T.
ON THE NEW AMERICAN SUBMARINE "NAUTILUS" (WITH COMMENTARY AND APPENDICES A-C)
F. J. Krieger, tr. [14p] (fig omitted) T-37; AD-604 785.
Order from OTS HC $1.00 MF $0.50 TT-64-71279

Trans. from Krasnaya Zvezda (USSR) 1954, 19 Jun, p. 4.
Also available from SLA as R-728; another trans. is available from SLA as R-3569, 14p.

Ignat'ev, M. A.
CALCULATING THE STRENGTH OF SCREW PROPELLER BLADES FOR SHIPS USED IN ICE NAVIGATION. 14 Aug 64, 11p JPRS: 25936.
Order from OTS HC $1.00, MF $0.50 TT-64-41207

Trans. of Problemy Arktiki i Antarktiki (USSR) 1964, no. 16, p. 75-82.

FOOD, HANDLING, AND PACKAGING EQUIPMENT

PROCESS FOR PREPARATION OF FRUIT FLAVORED ACIDIFIED MILK FOODS. 3p.
Order from SLA $1.10 TT-64-18051

Trans. of German patent 1,013,951, filed 25 Mar 53, pub. 14 Aug 57.

PROCESS FOR PREPARATION OF VITAMINIZED FEED LIME PREPARATIONS. 4p.
Order from SLA $1.10 TT-64-18049

Trans. of German patent 846,651, pub. 14 Aug 52.

PROCESS FOR PREPARATION OF VOLATILE CONSTITUENTS OF PLANTS OR PREPARATIONS CONTAINING PLANT COMPONENTS. 1p.
Order from SLA $1.10 TT-64-18462

Trans. of Swiss patent 190,640, suppl. to patent 185,276, n.d.

SOVIET FISHERIES (Sovjetsamveldets Fiskerier). 30 Apr 64 [4p]
Order from OTS or ETC HC $1.00, MF $0.50

Trans. of Fiskets Gang (Norway) 1964, v. 50, no. 7, p. 119-120.

Chubinidze, B. N.
STORAGE AND PROCESSING OF FATS IN AN INERT GAS ATMOSPHERE (Khranenie i Pererabotka Zhirov v Atmosfere Inertnogo Gaza). Jul 64 [9p] 3refs RTS-2548.
Order from OTS or ETC HC $1.00, MF $0.50 TT-64-19381

Trans. of Masl[oboino]-Zhir[ovaya] Prom[yshlennost'] (USSR) 1963, v. 29, no. 5, p. 35-38.

Fattinger, H. and Pfauth.
PROCESS FOR PREPARATION OF FEED ADDITIVES. 7p.
Order from SLA $1.10 TT-64-18050

Trans. of German patent 1,013,501, pub. 8 Aug 57.

Koch, H. and Traut, H.
PROCESS FOR PREPARATION OF A FEEDSTUFF. 3p 5refs.
Order from SLA $1.10 TT-64-18052

Trans. of German patent 1,013,953, pub. 14 Aug 57.

Miksch, J.
PROCESS FOR THE PREPARATION OF A CURDLED MILK NUTRIENT. 7p 1ref
Order from SLA $1.10 TT-64-18058

Trans. of German patent 1,132,786, by John A. Benekiser G.m.b.h., Chemische Fabrik, Ludwigshafen, pub. 5 July 62.

MACHINERY, FABRICATION, AND ACCESSORY EQUIPMENT

USSR INDUSTRIAL DEVELOPMENT: GENERAL INFORMATION ON SOVIET MACHINERY INDUSTRIES NO. 25. 31 Jul 64, 15p JPRS: 25689.
Order from OTS HC $1.00 MF $0.50 TT-64-31961

Trans. of 5 selected articles from Mar, May-Jun 64 issues of Russian journals and newspapers.

USSR INDUSTRIAL DEVELOPMENT: GENERAL INFORMATION ON SOVIET MACHINERY INDUSTRIES NO. 26. 11 Aug 64, 11p JPRS: 25831.
Order from OTS HC $1.00 MF $0.50 TT-64-41102

Trans. of selected articles from May 64 issues of various Russian newspapers.

USSR INDUSTRIAL DEVELOPMENT: GENERAL INFORMATION ON SOVIET MACHINERY INDUSTRIES NO. 27. 13 Aug 64, 10p JPRS: 25908.
Order from OTS HC $1.00 MF $0.50 TT-64-41179

Consists of 3 articles from Apr -Jun 64 issues of Russian newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET CONSTRUCTION MACHINERY NO. 57. 10 Jul 64, 40p JPRS: 25423.
Order from OTS HC $1.25 MF $0.50 TT-64-31696

Trans. of 12 selected articles and 48 news briefs from Jan-Jun 64 issues of various Russian journals and newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET METALWORKING EQUIPMENT NO. 105. 15 Jul 64, 18p JPRS: 25470.
Order from OTS HC $0.50 MF $0.50 TT-64-31742

Consists of 3 articles from 1964 issues of Russian Journals and newspapers.

Separate entry has been prepared for 1 article

USSR INDUSTRIAL DEVELOPMENT: SOVIET METALWORKING EQUIPMENT NO. 106. 31 Jul 64, 22p JPRS: 25682.
Order from OTS HC $1.00 MF $0.50 TT-64-31954

Trans. of 6 selected articles from May 64 issues of Russian newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET METALWORKING EQUIPMENT NO. 109. 11 Aug 64, 69p JPRS: 25828.
Order from OTS HC $3.00 MF $0.75 TT-64-41099

Trans. of 10 selected articles from 1963, Apr-Jun 64 issues of various Russian journals and newspapers.

A separate entry as been prepared for 1 article.

USSR INDUSTRIAL DEVELOPMENT: SOVIET METALWORKING EQUIPMENT NO. 111. 18 Aug 64, 9p JPRS: 25965.
Order from OTS HC $1.00 MF $0.50 TT-64-41236

Consists of 4 articles from May-Jun 64 issues of Russian newspapers.

Dem'yanovich, A. N.
MEASURES TO IMPROVE THE QUALITY OF MACHINES AND EQUIPMENT. 12 Aug 64, 6p JPRS: 25885.
Order from OTS HC $1.00 MF $0.50 TT-64-41156

Trans. of #Vestnik Mashinostroeniya (USSR) 1963 [v. 43] no. 10, p. 86-88.

Ilg, J.
TESTING OF THE WASHING ACTION IN DRUM-TYPE WASHING MACHINES. 13p 15refs.
Order from SLA $1.60 TT-64-18137

Trans. of Seifen-Öle-Fette-Wachse (West Germany) 1963, v. 89, no. 19, p. 573-578.

Kuz'min, V. V.
STANDARDIZATION AND UNIFICATION OF EQUIPMENT IN MACHINE BUILDING. 11 Aug 64, 11p JPRS: 25828 (p. 1-11).
Order from OTS HC $3.00 MF $0.75 in TT-64-41099 p. 1-11)

Trans. of Standardizatsiya (USSR) 1964 [v. 28] no. 4, p. 25-30.

Parsomova, G. L. and Lesnitskii, M. L.
AUTOMATIC ASSEMBLY LINE OF CYLINDER BLOCK HEADS OF MOTORS [AND] NEW METAL-CUTTING SEMIAUTOMATIC MACHINE TOOLS. USSR Industrial Development: Soviet Metalworking Equipment no. 108. 10 Aug 64, 17p JPRS: 25807.
Order from OTS HC $1.00 MF $0.50 TT-64-41078

Trans. of Mekhanizatsiya i Avtomatizatsiya Proizvodstva (USSR) 1964, no. 5, p. 12-13, 37-40.

Penkov, P. M.
NEW LEVELS OF DEVELOPMENT IN THE MACHINE TOOL INDUSTRY [AND] MACHINE-TOOL BUILDING IN THE USSR. USSR Industrial Development: Soviet Metalworking Equipment no. 102. 22 Jun 64, 34p JPRS: 25179.
Order from OTS HC $1.00 MF $0.50 TT-64-31528

Trans. of #Stanki i Instrument (USSR) 1964 [v. 35] no. 3, p. 1-2, 8-17.

Razumov, N. A. and Lobov, G. T.
STANDARDS AND SPECIFICATIONS ARE THE BASIS OF HIGH QUALITY AND SPECIALIZATION IN INDUSTRY [AND] CONFERENCE ON STANDARDIZATION OF MACHINE BUILDING ENTERPRISES IN CENTRAL ASIA [FRUNZE, DEC 63]. USSR Industrial Development: General Information on Soviet Machinery Industries no. 23. 28 Jul 64, 10p JPRS: 25611.
Order from OTS HC $1.00 MF $0.50 TT-64-31883

Trans. of Standartizatsiya (USSR) 1964 [v. 28] no. 3, p. 3-8. 55.

Shevlyakov, I. M.
SMALL-SIZE DRILLING MACHINE UNITS. 15 Jul 64, 4p JPRS: 25470 (p. 13-16).
Order from OTS $0.50 in TT-64-31742 (p. 13-16)

Trans. of Mashinostroenie (USSR) 1964, no. 2, p. 24-26.

Yutkin, L. A. and Gol'tsova, L. I.
METHOD OF OBTAINING HIGH AND SUPERHIGH PRESSURES. 10 Jun 64 [6p] FTD-TT-63-1043; AD-602 319.
Order from OTS HC $1.00 MF $0.50 TT-64-11854

Unedited rough draft trans. of Russian patent 148724, appl. 605993/25, 25 Mar 51.

Engines and Propulsion Systems

Glaser, Wolfgang.
A NEW GAS METER FOR RECORDING THE QUANTITY OF COMBUSTION GASES IN THE CRANKCASE (Ein Neues Gasmengenmessgerät zur Beobachtung des Gasdurchtritt in das Kurbelgehäuse). [13p] (foreign text included).
Order from SLA $1.60 TT-64-18181

Trans. of ATZ: Automobiltechnische Zeitschrift (Germany) 1938, v. 41, no. 23, p. 616-620.

Pfleiderer, C. and Thuss, W.
SOME RULES FOR THE DESIGN OF SUPERCHARGERS WITH HIGH COMPRESSION RATIOS (Einige Regeln für die Ausbildung von Ladern Grosser Förderhöhe). [24p]
Order from SLA $2.60 TT-64-18171

Trans. of unidentified report from the Braunschweig Technical University (Germany) 18 May 44.

Shtoda, A. V., Aleshchenko, S. P., Ivanov, A. Ya., Krasavtsev, V. S., and Morozov, F. N.
DESIGN OF AIRCRAFT GAS-TURBINE ENGINES. 4 Jun 64 [625p] 27refs FTD-TT-63-405; AD-602 634.
Order from OTS HC $9.25 MF $2.75 TT-64-11980

Unedited rough draft trans. of mono. Konstruktsiya Aviatsionnykh Gazoturbinnykh Dvigatelei, Moscow, 1961, 411p.

Machine Parts and Mechanisms

Albegov, N. A. and Yasentsev, V. F.
IMPROVED PARAMETERS OF ELECTRO-PNEUMATIC BRAKES. 6p.
Order from SLA $1.10 TT-64-18068

Trans. of Zheleznodorozhnyi Transport (USSR) 1963 [v. 45, no. 9] p. 53-55.

Völkening, Wilhelm.
DEVICES FOR THE INSTALLING AND DISMANTLING OF ROLLER AXLE BEARINGS. 15p 10refs.
Order from SLA $1.60 TT-64-18074

Trans. of Glasers Annalen (Germany) 1961 [v. 85, no. 3] p. 91-97.

Transport, Traction and Hoist Facilities

USSR INDUSTRIAL DEVELOPMENT: SOVIET AUTOMOTIVE INDUSTRY NO. 59. 6 Jul 64, 19p JPRS: 25351.
Order from OTS HC $0.75 MF $0.50 TT-64-31624

Trans. of 5 selected articles from Jan and Apr 64 issues of various Russian journals and newspapers.

Berngard, K. A. and Mezhova, R. V.
SPECIALIZATION OF TANK-CARS FOR TRANSPORTATION OF CHEMICALS. 7p.
Order from SLA $1.10 TT-64-18075

Trans. of Zheleznodorozhnyi Transport (USSR) 1963 [v. 45, no. 12] p. 11-14.

Dem'yankov, N. V.
BRINE UNITS MADE OF POLYETHYLENE. 3p.
Order from SLA $1.10 TT-64-18078

Trans. of Zheleznodorozhnyi Transport (USSR) 1963 [v. 45, no. 12] p. 80.

Dobroranykh, P.
NECESSARY TO IMPROVE PRODUCTION OF SOVIET AUTOMOBILE TIRES. USSR Industrial Development: Soviet Chemical Industry no. 175. 19 Aug 64, 3p JPRS: 25973.
Order from OTS HC $1.00, MF $0.50 TT-64-41244

Trans. from Izvestiya (USSR) 1964, 20 Jun, p. 3.

Gabidzashvili, G., Aver'yanov, K., Kushner, V., and Borisov, S.
KNOWLEDGE OF ECONOMICS AND PROFITABLENESS [AND] LACK OF COOPERATION AMONG PLANTS. USSR Industrial Development: Soviet Automotive Industry No. 60. 15 Jul 64, 7p JPRS: 25482.
Order from OTS HC $0.50 MF $0.50 TT-64-31754

Trans. from Ekonomicheskaya Gazeta (USSR) 1964, no. 20[145] p. 9; Sovetskaya Belorussiya (USSR) 1964, 14 May, p. 2.

Gal'burt, A., Oganyan, A., Uustalu, A., Podluzhnii, V., and Yumarik, Yu.
DEVOTING MORE ATTENTION TO GARAGE EQUIPMENT PRODUCTION; SPECIALIZATION IN THE AUTOMOBILE ENTERPRISES OF THE BALTIC REPUBLICS; INNOVATIONS AT THE TALLIN AUTOMOBILE REPAIR PLANT. USSR Industrial Development: Soviet Automotive Industry no. 61. 16 Jul 64, 17p JPRS: 25490.
Order from OTS HC $0.50 MF $0.50 TT-64-31762

Trans. of Avtomobil'nyi Transport (USSR) 1964 [v. 42] no. 2, p. 15-17, 22-24.

Gamirov, V. I. [Krutikhovskii, V. G., Mikhailov, S.I., Sokolov, P. S., and Tarlinskii, I. V.].
THE USE OF ALUMINUM ALLOYS FOR FREIGHT CARS. 3p.
Order from SLA $1.10 TT-64-18069

Trans. of Zheleznodorozhnyi Transport (USSR) 1963 [v. 45, no. 10] p. 47-48.

Libin, A. L., Mirolyubova, Z. A., Pashkevich, M. Yu.
ENDURANCE TEST ON PLASTIC PUTTIES FOR REPAIR OF FREIGHT CARS. 5p.
Order from SLA $1.10 TT-64-18076

Trans. of Zheleznodorozhnyi Transport (USSR) 1963 [v. 45, no. 12] p. 18-20.

Orlov, M. V.
ROUTINE MAINTENANCE OF AXLE-BOXES ON EXTENDED TURN-AROUNDS. 9p.
Order from SLA $1.10 TT-64-18071

Trans. of Zheleznodorozhnyi Transport (USSR) 1963 [v. 45, no. 11] p. 25-29.

Pobedonostsev, V.
SUPPLY AND DEMAND SHOULD BE CONSIDERED [AND] AUTOMOBILE INDUSTRY, 1964-65. USSR Industrial Development: Soviet Automotive Industry no. 62. 11 Aug 64, 9p JPRS : 25832.
Order from OTS HC $1.00 MF $0.50 TT-64-41103

Trans. from Ekonomicheskaya Gazeta (USSR) 1963, no. 52[125] p. 32; Avtomobil'nyi Transport (USSR) 1964 [v. 42] no. 3, p. 38-40.

Shtefko, I. V.
PALLETS FOR CENTRALIZED TRANSFER TO CARGO. 5p.
Order from SLA $1.10 TT-64-18073

Trans. of Zheleznodorozhnyi Transport (USSR) 1963 [v. 45, no. 11] p. 68-70.

Smorodinov, M. A.
SHORT "EMPTY" TRIPS FOR BOX-CARS AND CONTAINERS. 5p.
Order from SLA $1.10 TT-64-18070

Trans. of Zheleznodorozhnyi Transport (USSR) 1963 [v. 45, no. 11] p. 20-22.

Tikhonov, K. K.
THE MOST FAVOURABLE SPEEDS FOR FREIGHT TRAINS, NOW AND IN THE FUTURE. 9p.
Order from SLA $1.10 TT-64-18072

Trans. of Zheleznodorozhnyi Transport (USSR) 1963 [v. 45, no. 11] p. 29-34.

Tyutyunnikov, B. N. [Grechishnikova, L. P. and Dubinskii, P. B.].
WASHING THE BODIES OF PASSENGER CARS. 2p.
Order from SLA $1.10 TT-64-18077

Trans. of Zheleznodorozhnyi Transport (USSR) 1963 [v. 45, no. 12] p. 82-83.

MATERIALS

PROCESS FOR THE MANUFACTURE OF MICROSCOPIC CAPSULES. 9p
Order from SLA $1.10 TT-64-18110

Trans. of Belgian patent 628,650, by Gavaert Photo-Producten N.V., filed 11 June 64 (Netherlands Priority: application 275,045, filed 20 Feb 62).

PROCESS FOR THE PREPARATION OF SOLUTIONS AND JELLY PRODUCTS OF CO-POLYMERS OF VINYL HALIDES AND VINYLIDENE HALIDES. 4p.
Order from SLA $1.10 TT-64-18870

Trans. of Dutch patent 63,604, by N. V. De Bataafsche Petroleum Maatschappij, The Hague, granted 25 May 49, pub. 15 June 49, appl. 108,866 filed 10 Dec 42.

Herrmann, P.
"ON THE DETERMINATION OF FREE CALCIUM HYDROXIDE IN HARDENED CEMENTS AND CEMENT-TRASS MIXTURES": DISCUSSION OF RODT'S PAPER. 6p.
Order from SLA $1.10 TT-64-18197

Trans. of Zement (Germany) 1935, v. 24, no. 14, p. 217-219.

Jänecke, Ernst.
THE CONSTITUTION OF PORTLAND CEMENT. 5p (6 figs omitted) 2refs.
Order from SLA $1.10 TT-64-18241

Trans. of Z[eitschrift für] Elektrochemie (Germany) 1926, v. 32, p. 354-362. (Also published in Stahl u[nd] Eisen (Germany) 1926 [v. 46] no. 24).

Jänecke, Ernst.
THE CONSTITUTION OF PORTLAND CEMENT CLINKER. 21p 14refs.
Order from SLA $2.60 TT-64-18218

Trans. of Z[eitschrift für] Anorg[anische und Allgemeine] (Chem[ie] (Germany) 1911, v. 73 [no. 2] p. 200-222.

Janecke, Ernest.
[MORE ABOUT ALITE]. 17p (tables 11 figs omitted).
Order from SLA $1.60 TT-64-18325

Trans. of Tonindustrie Zeitung (Germany) 1928, v. 52, no. 38, p. 757-760; no. 39, p. 782-786.

Kalk, Wolfgang.
VOLUME INCREASE AND WATER ABSORPTION OF HYDRAULIC CEMENTS. 7p 1ref.
Order from SLA $1.10 TT-64-18278

Trans. of Zement (Germany) 1924, v. 13, p. 666-669, 679-681.

Keyssner, E.
THE OCCURRENCE OF IODINE O IN CEMENT FLUE DUST. 3p 10refs.
Order from SLA $1.10 TT-64-18308

Trans. of Chem[iker] Z[eitung] (Germany) 1925, v. 49, p. 821.

Killig, F.
CALCIUM CHLORIDE AND CEMENT. 14p
Order from SLA $1.60 TT-64-18286

Trans. of Zement (Germany) 1922 [v. 11] [p. 487-489, 499-500, 507-509, 515-516].

Koyanagi, K.
THE SETTING AND HARDENING OF PORTLAND CEMENT. 5p (11 figs 5 refs omitted).
Order from SLA $1.10 TT-64-18225

Trans. of Zement (Germany) 1934, v. 23, no. 48, p. 705-708.

Kubik, F.
EFFECT OF SILICA CONTENT ON SOUNDNESS OF HARDENED PORTLAND CEMENT. 3p (1 fig omitted).
Order from SLA $1.10 TT-64-18226

Trans. of Tonindustrie-Zeitung (Germany) 1926 [v. 50, p. 299].

Kühl, Hans.
THE GRAPHIC REPRESENTATION OF HYDRAULIC MORTARS. [11p].
Order from SLA $1.60 TT-64-18239

Trans. from Tonind[ustrie]-Z[ei]t[un]g (Germany) 1927, v. 51, no. 22.

Kühl, Hans.
WHAT IS ALITE. 5p.
Order from SLA $1.10 TT-64-18232

Trans. of Zement (Germany) 1924, v. 13, p. 512.

Kühl, Hans and Albert, Hans.
INFLUENCE OF TEMPERATURE ON THE FORMATION OF CALCIUM SULFOALUMINATE. 4p.
Order from SLA $1.10 TT-64-18236

Trans. of Zement (Germany) 1923, v. 12, p. 279-[280].

Kühl, Hans and Knothe, Walter.
THE CHEMISTRY OF THE HYDRAULIC CEMENTS: MICROSCOPIC DATA ON PORTLAND CEMENT CLINKER [AND] THE ANALYTICAL COMPOSITION OF THE SINGLE CONSTITUENTS. [11p] (9 figs omitted).
Order from SLA $1.60 TT-64-18267

Trans. of mono. Die Chemie der Hydraulischen Bindemittel, Leipzig, table of Contents and chap. 7, p. 144-154, 157-160.

Lafuma, Henri, Lecuir, Rene, and Bilde, Henry.
STUDY OF THE HYDRATION OF HYDRAULIC BINDERS BY ELECTRON DIFFRACTION (Etude de l'Hydration des Liants Hydrauliques par la Diffraction Electronique). 2p (5 figs omitted).
Order from SLA $1.10 TT-64-18210

Trans. of Academie des Sciences [Paris]. Comptes Rendus (France) 1950, v. 231 [no. 7] p. 441-443 (pub. by Gauthier-Villars et Cie., Paris).

Ludera, L.
RESULTS OF STUDIES CONCERNED WITH THE IMPROVEMENT OF REFRACTORY CONCRETES BASED ON PORTLAND CEMENT. 8p (3 figs 4 tables omitted) 3refs.
Order from SLA $1.10 TT-64-16843

Trans. of Cement, Wapno, Gips (Poland) [1962, v. 17/27] no. 9, p. 252-255.

Marwedel.
PROCESS FOR THE PREPARATION OF METALLIC SOAP SOLUTIONS. 7p.
Order from SLA $1.10 TT-64-18053

Trans. of German patent 1,018,409, by Chemische-Technische Werkstatten u. Laboraterium, Schramberg, pub. 17 Apr 58.

Mecke, P.
THE FORMATION OF TWO DIFFERENT SULFOALUMINATES FROM GYPSUM IN CEMENT. 12p 8refs.
Order from SLA $1.60 TT-64-18330

Trans. of Tonind[ustrie]-Z[ei]t[un]g (Germany) 1929, v. 53, p. 681-684.

Nacken, R.
SETTING - HARDENING - SWELLING. 12p. (13 figs omitted) 2refs.
Order from SLA $1.60 TT-64-18295

Slightly condensed trans. of Zement-Kalk-Gips (West Germany) 1953, v. 6, no. 3, p. 69-78.

Oden, Sven.
THE SETTING OF CEMENT. 18p 2refs.
Order from SLA $1.60 TT-64-18314

Trans. of Svensk Kem[isk] Tidskr[ift] 1926, v. 38, p. 111-121.

Pooka, P.
GLASS PLASTICS IN FURNITURE AND DECORATION AND USES OF PLASTICIZED WOOD. USSR Industrial Development: Soviet Chemical Industry no. 169. 24 Jul 64, 5p JPRS: 25574.
Order from OTS HC $0.50 MF $0.50 TT-64-31846

Trans. of Nauka i Tekhnika (Latvian SSR) 1964, no. 4, p. 24-26.

Rankin, G. A. and Wright, F. E.
CONTRIBUTIONS FOR THE INVESTIGATION OF PORTLAND CEMENT CLINKER: HYPOTHETICAL COMPOUNDS 8 CaO. Al_2O_3. $2SiO_2$. 4p (6 refs omitted) 3refs.
Order from SLA $1.10 TT-64-18249

Trans. of Z[eitschrift für] Anorg[anische und Allgemeine] (Germany) 1912, v. 75 [no. 1] p. 63-67.

Rathke, H.
THE DETERMINATION OF FREE LIME. 8p (1 fig 3 refs omitted) 3refs.
Order from SLA $1.10 TT-64-18328

Trans. of Tonind[ustrie]-Z[ei]t[un]g (Germany) 1928, v. 52, no. 65, p. 1318-[1321].

Rebuffat, A.
REFORM OF OUR KNOWLEDGE ON THE CONSTITUTION OF CLINKERS; RESULTS IN THE FIELD OF THE SILICATES. 11p (1 fig 2 tables 32 refs omitted).
Order from SLA $1.60 TT-64-18201

Trans. of Chimie et Industrie (France) 1948, v. 59, [no. 3] p. 240-[246].

Satava, Vladimir.
AN APPARATUS FOR A RHEOLOGICAL INVESTIGATION OF THE STIFFENING PROCESS IN MORTARS. 3p (3 figs 2 refs omitted).
Order from SLA $1.10 TT-64-18337

Trans. of Silikat Technik (East Germany) 1955, v. 6, no. 8, p. 338.

Schmidt, Oscar.
WHAT IS ALITE? 3p.
Order from SLA $1.10 TT-64-18263

Trans. of Zement (Germany) 1924, v. 13, p. 543-544.

Schott, E.
CRYSTALLIZATION PROCESSES AND REARRANGEMENTS DURING SETTLING OF CEMENT. 10p (5 figs omitted).
Order from SLA $1.10 TT-64-18244

Trans. of Zement (Germany) 1921, v. 10, p. 294-295, 306-308, 328-332.

Schwiete, H. E. and Strassen, H. zur.
ON THE EFFECT OF THE MAGNESIA CONTENT IN PORTLAND CEMENT CLINKER ON TETRACAL TETRACALCIUMALUMINAFERRITE. A CONTRIBUTION TO THE SYSTEM CaO - MgO - Al_2O_3 - Fe_2O_3. 7p (4 figs 2 tables omitted) 9refs.
Order from SLA $1.10 TT-64-18196

Trans. of Zement (Germany) 1934, v. 23, no. 36, p. 511-514.

Simorda, J.
UNITS WITH COBALT-60 GAMMA RADIATION SOURCES FOR USE IN RESEARCH ON RADIATION TECHNOLOGY OF RUBBER AND PLASTICS (Ustanovki pri Radiatsionno-Tekhnologicheskikh Issledovanii Reziny i Plastmass s Istochinkami Gamma Izlucheniya Co-60). [13p] 3refs
Order from OTS or ETC HC $1.00 AEC-tr-6115

Trans. of mono. Conf[erence on the Application of Large Radiation Sources in Industry and Especially to Chemical Processes] Warsaw, 8-12 Sep 58. Proceedings, v. 1, Vienna, 1960, p. 105-114 (STI/PUB/12).

Strassen, H. zur.
REACTIONS OF FORMATION AND PHASE EQUILIBRIA OF CLINKER CONTAINING MAGNESIA. 8p (3 figs omitted) 6refs.
Order from SLA $1.10 TT-64-18194

Trans. of Zement (Germany) 1936, v. 25, no. 14, p. 218-221.

Suter, A.
PROCESS FOR PREPARATION OF A SULFONATION PRODUCT USEFUL AS A WETTING, DISPERSING, WASHING AND CLEANSING AGENT. 2p.
Order from SLA $1.10 TT-64-18453

Trans. of Swiss patent 256, 479, n.d.

Tavasci, B.
THE GLASS IN PORTLAND CEMENT. 3p (20 figs 8 refs omitted).
Order from SLA $1.10 TT-64-18191

Trans. of Zement (Germany) 1941, v. 30, no. 7, p. 83-85; no. 8, p. 100-103.

Trojer, F.
SOME OBSERVATIONS ON TRICALCIUM SILICATE AND TRICALCIUM ALUMINATE. 5p (4 figs omitted) 7refs.
Order from SLA $1.10 TT-64-18322

Trans. of Radex Rundschau (Austria) 1952, no. 6, p. 267-[269].

Weyer, Imm.
REACTION COURSES OF KAOLIN AND LIME IN STATIC BURNING: A CONTRIBUTION TO THE THEORY OF CEMENT BURNING AND TO THE CONSTITUTION OF PORTLAND CEMENT. [51p] 65refs.
Order from SLA $5.60 TT-64-18340

Partial trans. (pts. I, III, -IV) of Doctoral thesis, Kiel University. Institute of Mineralogy, Germany, 1930.

Zschokke, Bruno.
THE RESISTANCE OF CONCRETE TO CHEMICALS OF THE SOIL AND SOIL WATERS. 4p.
Order from SLA $1.10 TT-64-18324

Trans. of unidentified report from the Zürich Technical University. Testing Materials Laboratory (Switzerland) n.d.

Adhesives and Sealants

Mann, René.
ADHESIVE COMPOSITIONS IN TWO ELEMENTS. 3p.
Order from SLA $1.10 TT-64-18115

Trans. of French patent 1,347,124, filed 12 Nov 62, pub. 18 Nov 63 (Bulletin Officiel de la Propriete Industrielle (France) 1963, no. 52).

Teucher, Siegfried.
SEALING OF NON-MOVING SURFACES. 23p 6refs.
Order from SLA $2.60 TT-64-16277

Trans. of [Automobil Industrie] (West Germany) 1963 [v. 11] no. 19F, p. 129-142.

Ceramics and Refractories

Brunnsteiner, Franz.
THE SELECTION OF BASIC BRICKS FOR THE REGENERATORS OF GLASS MELTING TANKS (Auswahl Basischer Steine für die Regeneratoren von Glasschmelzwannen). Presented to the H. V. G. Colloquium on Structural Refractories in the Glass Industry 23 Oct 59 in Frankfurt (Main). [15p] (foreign text included) 6refs.
Order from SLA $1.60 TT-64-16522

Trans. of Glastechn[ische] Ber[ichte] (West Germany) 1960, v. 33, no. 5, p. 165-168.
See also trans. TT-62-14221.

Dhers, V.
FIBER GLASS INDUSTRY. (TECHNICAL DATA). 5p.
Order from SLA $1.10 TT-64-16200

Trans. of Archives des Maladies Professionelles [de Medecine du Travail et Sécurité Sociale] (France) 1946, v. 7, p. 19-23.

Hlavac, Jan.
STUDY IN THE PHASE DIAGRAM SiO_2-Al_2O_3-MgO-CaO(-Na_2O) IN THE REGION OF THE QUATERNARY EUTECTIC TRIDYMITE-WOLLASTONITE-ANORTHITE-DIOPSIDE (Prispevek k Fazovemu Diagramu Soustavy SiO_2-Al_2O_3-MgO-CaO (-Na_2O) V Oblasti Kvarterniho Eutektika Tridymit-Wollastonit-Anorthit-Diopsid). [28p] (foreign text included) 12refs.
Order from SLA $2.60 TT-64-16599

Trans. of Sbornik Vyzkumnych Praci (Czechoslovakia) 1955, p. 207-217.

Schönborn, Herbert.
THE EFFECT OF THE EXPERIMENTAL CONDITIONS ON THE DETERMINATION OF THE MECHANICAL STRENGTH OF GLASS (Der Einfluss der Versuchsbedingungen auf die Bestimmung der Mechanischen Festigkeit des Glases). [21p] (foreign text included) 27refs.
Order from SLA $2.60 TT-64-16532

Trans. of Silikat Technik (East Germany) 1953, v. 4, no. 12, p. 531-535.
Another trans. is available from SLA as 57-752 (14p)

Fuels, Lubricants, and Hydraulic Fluids

Augustin, J. U. and Ans, A. M. d'
COMOIDAL GRAPHITE AND ITS EFFECT OF FRICTION AND LUBRICATION, IN PARTICULAR INCOMBUSTION ENGINES, PT I. 12p (9 figs 14 refs omitted).
Order from SLA $1.60 TT-64-18401

Trans. of V[erein] D[eutscher] I[ngenieure], Zeitschrift (West Germany) 1957, v. 99, no. 7, p. 274-279.

Fischer, Franz, Pichler, Helmut, and Lohmar, Walter.
SCIENTIFIC NOTES CONCERNING THE SYNTHESIS OF KOGASIN AND PARAFFIN IN AQUEOUS PHASE. 7p. (1 fig omitted)
Order from SLA $1.10 TT-64-18168

Trans. of Brennstoff-Chemie (Germany) 1939, v. 20 [no. 13] p. 247-250.

Kröger, C.
OXIDATION BEHAVIOR OF HYDROCARBONS. VI. EFFECT OF ANTIOXIDANTS DURING THE OXIDATION OF LUBRICATING OILS. 19p (5 figs 10 refs omitted).
Order from SLA $1.60 TT-64-18369

Trans. of [Erdöl and Kohle-Erdgas-Petrochemie] (West Germany) 1949, v. 2, [no. 9] p. 389-396.

Parc, G.
STUDY OF ANTIOXYGEN PROPERTIES OF SOME ALKYLPHENOLS. 25p 51refs.
Order from SLA $2.60 TT-64-16813

Trans. of Revue de l'Institut Francais du Pétrole [et Annales de Combustibles Liquides] 1957, v. 12 [no. 3] p. 304-329.

Salomon, T.
HOW V. 1. IMPROVERS ACT IN MINERAL OILS. 100p (3 figs omitted) 82refs.
Order from SLA $8.60 TT-64-18409

Trans. of Revue de l'Institut Francais du Petrole [et Annales des Combustibles Liquides] 1956, v. 11 [no. 4] p. 501-548.
Another trans. is available from K-H $120.00 as K-H-5445 (100)p.

Taszlicki, N.
PROCESS FOR PREPARATION OF STIFF GREASES. 3p.
Order from SLA $1.10 TT-64-18464

Trans. of Swiss patent 157,953, filed 31 Oct 32.

Trebin, F. A. and Faniev, R. D.
RESULTS OF APPLICATION OF NEW TECHNOLOGIES AND TECHNIQUES IN PETROLEUM RECOVERY. 7p.
Order from SLA $1.10 TT-64-16818

Trans. of Neftyanoe Khoz[yaistvo] (USSR) 1957 [v. 35] no. 1, p. 24-[30].

Leather and Textiles

PROCESS FOR IMPROVING THE PROPERTIES OF SYNTHETIC FIBERS. 4p.
Order from SLA $1.10 TT-64-18849

Trans. of German patent application P 2,644, by Phrin-Werke A. G., Hamburg, filed 27 June 50, pub. 17 Apr 52.

PROCESS FOR MANUFACTURING POLYACRYLONITRILE FIBERS OF HIGH STRENGTH AND ELONGATION. 6p.
Order from SLA $1.10 TT-64-18840

Trans. of German patent application P 5,700, by Phrin-Werke, A.G., Hamburg, filed 11 June 51, 30 Oct 52.

PROCESS FOR PREPARATION OF A CONDENSATION PRODUCT WITH TANNING ACTION. 5p.
Order from SLA $1.10 TT-64-18455

Trans. of Swiss patent 246,989, by J. R. Geigy AG, filed 1 Nov 47.

PROCESS FOR PREPARATION OF A CONDENSATION PRODUCT WITH TANNING ACTION. 2p.
Order from SLA $1.10 TT-64-18454

Trans. of Swiss patent 252,302, suppl. to patent 246,989, issued 1 Oct 48.

PROCESS FOR PREPARING PURE ISOPHTHALIC AND TEREPHTHALIC ACID METHYL ESTER. 4p
Order from SLA $1.10 TT-64-18848

Trans. of German patent application I2,175, by Imhausen & Co. G.m.b.H. and Karl-Heinz. Imhausen, Witten, filed 27 Sep 50, pub. 28 Jun 51.

STABLE DESIZING AGENT AND PROCESS FOR ITS PREPARATION. 3p.
Order from SLA $1.10 TT-64-18451

Trans. of Swiss patent 282,704, by Schweizerische Ferment A. -G., filed 15 May 52.

STABLE DESIZING AGENT AND PROCESS FOR ITS PREPARATION. 4p.
Order from SLA $1.10 TT-64-18449

Trans. of Swiss patent 289,581, by Schweizerische Ferment A.-G., suppl. to patent 282,704, filed 15 Mar 53.

STABLE DESIZING BATH. 2p.
Order from SLA $1.10 TT-64-18450

Trans. of Swiss patent 285,458, by Schweizerische Ferment A.-G., filed 15 Sep 52.

STABLE DESIZING BATH. 3p.
Order from SLA $1.10 TT-64-18448

Trans. of Swiss patent 289,582, by Schweizerische Ferment A.-G., suppl. to patent 295 458, filed 15 Mar 53.

Bräuer, M.
ALBIGEN A, A NEW REPRESENTATIVE IN THE GROUP OF DYE-AFFINITIVE TEXTILE AGENTS. 10p 4refs.
Order from SLA $1.10 TT-64-18875

Trans. of Melliand Textilberichte (West Germany) 1951, v. 32, p. 53-56.

Bubser, W.
INVESTIGATIONS CONCERNING THE REACTION MECHANISM IN THE DEGRADATION OF POLYAMIDE FIBERS BY LIGHT. PT. I. CHANGES IN POLYAMIDE FIBERS DUE TO EXPOSURE TO LIGHT. [11p].
Order from SLA $1.60 TT-64-18132

Trans. of Z[eitschrift für die] Ges[amte] Text[il]-Ind[ustrie] (West Germany) 1963, v. 65, p. 108-111.

Ehm, W. and Schnegg, R.
PROCESS FOR ENHANCING THE ABSORPTIVE CAPACITY OF TEXTILES MADE FROM SYNTHETIC LINEAR POLYAMIDES. 3p.
Order from SLA $1.10 TT-64-18049

Trans. of German patent 1,007,725, supplement to pat. 938,724, by Farbenfabriken Bayer, A. G., Leverkusen-Bayerwerk, pub. 30 Aug 53.

Frenzel, Walter.
CRIMPING WITH ARTIFICIAL FIBERS AND ITS DETERMINATION. 21p (1 fig omitted) 26refs.
Order from SLA $2.60 TT-64-18891

Trans. of Faserforschung und Textiltechnik (East Germany) 1951 [v. 2] no. 10, p. 383-390.

Hashimoto, T.
IMPROVEMENT OF THE LIGHT RESISTANCE OF NYLON 3. REACTION OF AMINO END-GROUPS OF NYLON WITH MONOFUNCTIONAL REAGENTS. [7p] 9refs.
Order from SLA $1.10 TT-64-18131

Trans. of Sen-i Gakkaishi (Japan) 1958, v. 14, no. 7, p. 484-487.

Klimova, V. S., Katorzhnov, N. D., Kudryavtsev, G. I. and Veschastnov, A. V.
RAPID METHOD OF SIMULTANEOUS DETERMINATION OF THE MONOMER AND MOISTURE CONTENT IN POLYCAPROLACTAM. 7p (1 fig omitted) 4refs.
Order from SLA $1.10 TT-64-16999

Trans. of Khimicheskie Volokna (USSR) 1963, no. 6, p. 64-65.

Korniov, K. A., Kachan, A. A., Lokhmachov, V. F., and Voitsekhivskii, R. V.
UTILIZATION OF ULTRA-VIOLET SPECTROSCOPY FOR TRACING THE PHOTODESTRUCTION OF POLYCAPROLACTAM. 4p 4refs.
Order from SLA $1.10 TT-64-18134

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR) 1963, no. 1, p. 65-66.

Nose, Akira.
PROCESS FOR MANUFACTURING IMITATION LEATHER CLOTH BY BLENDING POLYACRYLONITRILE AND POLYAMIDE. 3p.
Order from SA $16.00 SA Code-P-327

Trans. of published Japanese patent 7044/1963, cl. 27 E 23 (25 N 18) (47 D O) appl. no. 34960/1960, date of pub. notice 25 May 63, filed 17 Aug 60, by Shibata Rubber Industry Co., Ltd.

Okumura, Junnosuke.
PROCESS FOR MANUFACTURING SYNTHETIC IMITATION LEATHER. Jun 64, 5p.
Order from SA $16.00 SA Code-P-315

Trans. of published Japanese patent 7042/1963, cl. 27 E 23, appl. 1487/1960, 18 Jan 60, pub. 25 May 63, by Toyo Rayon Co., Ltd.

Schwäbel, Richard.
FLOCK-COATING AND ITS TECHNIQUE OF APPLICATION. [8p].
Order from SLA $1.10 TT-64-18130

Trans. of Zeitschrift für die Gesamte Textil-Industrie (West Germany) 1961, v. 63, no. 11, p. 933-938. Another trans. is available from SLA $1.60 as TT-63-15584 (13)p.

Takagi, Sadaaki.
PROCESS FOR MANUFACTURING POLYMERIC IMITATION LEATHER. Jun 64, 5p.
Order from SA $16.00 SA Code-P-314

Trans. of published Japanese patent 7039/1963, cl. 27 D O (27 E 23) appl. 41226/1959, 12 Dec 59, pub. 25 May 63.

Wegener, W. and Hoth, E. G.
THE COURSE OF THE FALSE DRAFT TWIST. 13p 4refs.
Order from SLA $1.60 TT-64-18447

Trans. of Melliand Textilberichte (West Germany) 1963 [v. 44, no. 12] p. 1312-1317.

Wegener, Walther, and Jammers, H. C.
HIGH-SPEED FALSE-TWIST MACHINE AND PROPERTIES OF CRIMP YARNS MADE BY MEANS OF THIS MACHINE, II. 10p.
Order from SLA $1.10 TT-64-18346

Trans. of Chemiefasern (West Germany) 1964 [v. 14] no. 2, p. 121-126.

Wolf, Siegfried.
METHODS OF ARTIFICIAL CRIMPING, PARTICULARLY WITH THREADS AND FIBERS OF VISCOSE. 30p 27refs.
Order from SLA $2.60 TT-64-18879

Trans. of Faserforschung und Textiltechnik (East Germany) 1951 [v. 2] no. 8, p. 308-321.

Yamada, Taro.
PROCESS FOR MANUFACTURING SYNTHETIC LEATHER DETAILED EXPLANATION OF INVENTION. 4p.
Order from SA $16.00 SA Code P-328

Trans. of published Japanese patent gazette no. 7045/1963, cl. 27 E 23 (25 N 18) (47 D O) appl. no. 39360/1960, date of pub. notice 25 May 63, filed 21 Sep 60, by Nippon Orimono Kako (Textile Processing) Co., Ltd.

Yoshimura, Atsushi and Tekunaga, Hisao.
AIR-PERMEABLE IMITATION LEATHER AND PROCESS FOR MANUFACTURING THEREOF. 9p.
Order from SA $19.00 SA Code-P-326

Trans. of published Japanese patent 7043/1963, cl. 1, 2 27 E 23 (47 D O), appl. no. 29572/1960, pub. notice 25 May 63, filed 30 Jun 60, by Nippon Rubber Co., Ltd.

Paints and Finishes

Yakubovich, S. V. and others.
THE USE OF INFRA-RED SPECTROSCOPY IN THE DETERMINATION OF THE COMPOSITION OF THE VOLATILE PRODUCTS OF THE PHOTOCHEMICAL DESTRUCTION OF PAINT FILMS. Jul 64.
Order from TTIS $9.00 TTIS NS 225

Trans. of Lakokrasochnye Mat[erialy i Ikh Primenenie] (USSR) 1964, no. 1, p. 56-58.

Zhukov, V. V.
APPARATUS FOR APPLYING PLASTIC COATINGS TO ARTICLES. 8 Jul 64 [5p] FTD-TT-64-45; AD-602 997.
Order from OTS HC$1.00, MF$0.50 TT-64-71148

Unedited rough draft trans. of Russian patent 149560 (appl. no. 751322/23-4, 11 Nov 61).

Photographic Materials

NEW PHOTOCONDUCTOGRAPHIC METHOD. 10p
Order from SLA $1.10 TT-64-18113

Trans. of French patent 1,332,000, by Kodak-Pathé, file no. 896,958, 9 May 62, pub. 4 June 63 (Bulletin Officiel de la Propriété Industrielle, 1963, no. 28) (U. S. priority: 15 May 61, no. 109,977, in the name of Donald Pearlman).

Avramenko, L. F., Vilenskii, Yu. B., Ivanov, B. M., Zaitseva, S. D., and Pochinok, V. Ya.
MECHANISM OF THE STABILIZING EFFECT OF BENZOTHIAZOLOTETRAZOLE DERIVATIVES ON PHOTOGRAPHIC EMULSIONS. II. NATURE OF THE ADSORPTION COMPOUND. 14p 30refs.
Order from SLA $1.60 TT-64-18543

Trans. of Zhurnal Nauchnoi i Prikladnoi Fotografii i Kinematografii (USSR) 1963, v. 8, no. 6, p. 419-426.

Belinskaya, G. I. and Gus'kova, M. S.
EFFECT OF THE DURATION OF EXPOSURE ON THE SHARPNESS OF PHOTOGRAPHIC IMAGE. 4p 6refs.
Order from SLA $1.10 TT-64-18535

Trans. of Zhurnal Nauchnoi i Prikladnoi Fotografii i Kinematografii (USSR) 1963, v. 8, no. 6, p. 463-465.

Bukatin, E. A.
IDEAL FORM OF CHARACTERISTIC CURVE OF MICROREPRODUCTION EMULSIONS. 7p.
Order from SLA $1.10 TT-64-18528

Trans. of Zhurnal Nauchnoi i Prikladnoi Fotografii i Kinematografii (USSR) 1963, v. 8, no. 6, p. 468-470.

Gribakin, G. G. and Istomin, G. A.
BASIC FACTORS DETERMINING THE RESOLVING POWER OF PHOTOGRAPHIC MATERIALS. 5p 8refs.
Order from SLA $1.10 TT-64-18531

Trans. of Zhurnal Nauchnoi i Prikladnoi Fotografii i Kinematografii (USSR) 1964, v. 9, no. 1, p. 57-59.

Harriman, B. R.
LIGHT-SENSITIVE PHOTOGRAPHIC MATERIAL. 8p 1ref.
Order from SLA $1.10 TT-64-18056

Trans. of addition to German patent 1,070,027, by Gen. Aniline & Film, n.d.

Hellmig, Erhard.
PROCESS FOR THE PREPARATION OF IMPROVED PARTIAL COLOR IMAGES OR COLOR PRINTS OF A COLORED ORIGINAL COPY AND MATERIAL FOR CARRYING OUT THE PROCESS. 4p.
Order from SLA $1.10 TT-64-18116

Trans. of German patent 1,149,987, filed 9 Aug 61, pub. 6 June 63.

Prokhotskii, Yu. M.
PHYSICAL RIPENING OF SILVER HALIDE PHOTOGRAPHIC EMULSIONS ACCORDING TO PUBLISHED MATERIAL OF RECENT YEARS. 28p 153refs.
Order from SLA $2.60 TT-64-18542

Trans. of Zhurnal Nauchnoi i Prikladnoi Fotografii i Kinematografii (USSR) 1963, v. 8, no. 3, p. 230-244.

Pruss, P. Kh.
SCATTERING OF LIGHT AND THE REPRODUCTION OF SMALL DETAILS OF AN OPTICAL IMAGE BY PHOTOGRAPHIC EMULSIONS (BASED ON H. FRIESER'S WORK). 22p 33refs.
Order from SLA $2.60 TT-64-18529

Trans. of Zhurnal Nauchnoi i Prikladnoi Fotografii i Kinematografii (USSR) 1963, v. 8, no. 3, p. 216-228.

Sherman, F. S., Podgorodetskii, E. K., Bukin, A. I., and Krasil'nikova, E. A.
EFFECT OF THE COMPOSITION OF SOLVENTS ON THE PROPERTIES OF TRIACETATE MOTION PICTURE FILM BASE. 11p 6refs.
Order from SLA $1.60 TT-64-18533

Trans. of Tekhnika Kino i Televideniya (USSR) 1963, v. 7, no. 10, p. 35-38.

Smirnov, O. K., Levi, S. M., Rybnikova, A. I., Korneva, E. D., and Popova, O. V.
HARDENING AND PLASTICIZING EFFECT OF WATER-SOLUBLE HEXAMETHYLOLMELAMINE ESTERS. I. SIMPLE ESTERS OF HEXAMETHYLOLMELAMINE AND SOME MONO-, DI- AND TRIHYDROXY ALCOHOLS AND POLYGLYCEROLS. 8p 11refs
Order from SLA $1.10 TT-64-18534

Trans. of Zhurnal Nauchnoi i Prikladnoi Fotografii i Kinematografii (USSR) 1963, v. 8, no. 6, p. 401-404.

Solov'ev, S. M.
MODEL FOR TESTING MOTION PICTURE AND PHOTOGRAPHIC FILMS. 3p 2refs.
Order from SLA $1.10 TT-64-18536

Trans. of Zhurnal Nauchnoi i Prikladnoi Fotografii i Kinematografii (USSR) 1963, v. 8, no. 6, p. 460-461. Another trans. is available from SLA $1.10 as TT-64-16544 [3p].

Veprik, Ya. M., Sintsov, V. N., and Faerman, G. P.
INVESTIGATIONS OF KINETICS OF REDUCTION OF SILVER NITRATE BY p-HYDROXYPHENYLGLYCINE. 7p 11refs.
Order from SLA $1.10 TT-64-18538

Trans. of Zhurnal Nauchnoi i Prikladnoi Fotografii i Kinematografii (USSR) 1963, v. 8, no. 6, p. 434-437. Another trans. is available from SLA $1.10 as TT-64-16542 [9p].

Zyuskin, N. M.
FOGGING OF EMULSIONS BY SOME DESENSITIZING DYES. 7p 9refs.
Order from SLA $1.10 TT-64-18530

Trans. of Zhurnal Nauchnoi i Prikladnoi Fotografii i Kinematografii (USSR) 1964, v. 9, no. 1, p. 11-14.

Plastics

PROCESS AND DEVICE FOR THE CONTINUOUS POLYMERIZATION. 7p (figs omitted).
Order from SLA $1.10 TT-64-18873

Trans. of German patent 804,724, by Solvay & Cie, Brussels, granted 25 Oct 49, announced 1 Mar 51, pub. 30 Apr 51 (Priority: Belgium, 20 Mar 47).

PROCESS FOR PREPARATION OF FINE GRAINED POLYVINYL ACETATE EMULSIONS. 3p.
Order from SLA $1.10 TT-64-18042

Trans. of German patent 803,956, by Consortium für Elektrochemische Industrie, pub.12 Apr 51.

PROCESS FOR PRODUCTION OF NITRO CELLULOSE SOLUTIONS CONTAINING ROSIN BODIES. 1p.
Order from SLA $1.10 TT-64-18465

Trans. of Swiss patent 134,370, by Georg Fey & Co., n.d.

PRODUCTION OF UNSATURATED POLYESTER RESINS. Jul 64.
Order from TTIS $18.00 TTIS NS 233

Trans. of Polish patent 48 057, appl. 14 Feb 63, pub. 24 Feb 64, by Instytut Tworzyw Sztucznych.

THERMICALLY STABLE COMPOSITIONS OF POLYFLUOROCARBIDES AND OF POLYIMIDES. 9p.
Order from SLA $1.10 TT-64-18112

Trans. of French patent 1,328,936, by E. I. du Pont de Nemours and Co., U. S., patent file no. 890,832, 13 Mar 62, pub. 29 Apr 63 (Bulletin Officiel de la Propriété Industrielle, 1963, no. 23) (U. S. priority: 13 Mar 61, no. 95,019/61, in the names of A. W. Anderson and L. R. Perkins).

Balabanov, E. I., Frankevich, E. L. and Cherkashina, L. G.
ELECTROPHYSICAL PROPERTIES OF POLYMERIC PHTHALOCYANINES (Issledovanie Elektrofizicheskikh Svoistv Polimernykh Ftalotsyaninov)
David Kraus, tr. Mar 64 [16p] 5refs
AmMetSoc-T-R-433; AD-602 181.
Contract AF19 628 3880.
Order from OTS HC $1.00 MF $0.50 TT-64-11823

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1963, v. 5, no. 11, p. 1684-1690.

Belavtseva, E. M., Gumargalieva, K. Z., and Kitaigorodskii, A. I.
ELECTRON MICROSCOPE INVESTIGATION OF GRAFT POLYMERS. 5p 1ref.
Order from SLA $1.10 TT-64-16827

Trans. of Akademiya Nauk SSSR. Doklady, 1963, v. 153 [no. 3] p. 631-633.

Croning, Johannes.
MOLDING MASS. 4p 1ref.
Order from SLA $1.10 TT-64-18887

Trans. of German patent 742,395, granted 11 Jan 42, announced 14 Oct 43, pub. 1 Dec 43.

Dawson and Sellet.
PROCESS FOR PREPARATION OF A NON-GELLING DICYANDIAMIDE-FORMALDEHYDE RESIN STABLE IN AQUEOUS SOLUTION. 3p 2refs.
Order from SLA $1.10 TT-64-18054

Trans. of addition to German patent 1,034,858, by Jacques Wolf & Co., U. S., appl. W 10818, filed 18 Mar 58, pub. 24 July 58.

Ebneth and Falk.
DEVICE FOR REGULATION OF POLYISOCYANATE FOAM PORE STRUCTURE. 6p.
Order from SLA $1.10 TT-64-18055

Trans. of German patent 1,067,207, by Farbenfabriken Bayer A. G., Leverkusen-Bayerwerk, pub.15 Oct 59.

Hanyuda, Toshiaki and Miyatsu, Yoshiro.
METHOD FOR THE PRODUCTION OF FOAM EPOXY MODIFIED AMINO RESIN. [12p].
Order from SA $19.00 SA Code-P-342

Trans. of published Japanese patent 2,738/1963, cl. 25-N-18 (25-N-181)(26-D-3)(26-D-41)(25-N-2) 29 Mar 63, appl. no. 3,082/1961, 2 Feb 61, by Riken Gosei Jushi Co., Ltd.

Hirayama, Tatsu, Nitto, Mitsuteru, and Terakawa, Akira.
METHOD OF SYNTHESIZING PHENOL. 13p.
Order from SA $22.00 SA Code-P-321

Trans. of published patent 5820/1963, cl. 16-C-411, pub. notice 13 May 63, filed 30 Dec 60, appl. no. 51470/1960, by Showa Denko Co.

Hoppe, Peter, Weinbrenner, Erwin, Mühlhausen, Cornelius, and Breer, Karl.
METHOD FOR MANUFACTURE OF POROUS OR HOMOGENEOUS SYNTHETIC INTERMEDIATES SPECIFICALLY FINISHED PRODUCTS OF POLYURETHANE IN NATURE AND APPARATUS FOR CARRYING OUT THE METHOD. 10p.
Order from SLA $1.10 TT-64-18045

Trans. of German patent 901,471, by Farbenfabriken Bayer A. G., Leverkusen-Bayerwerk, pub. 11 Jan 54.

Kaiser, R.
COLD AND HOT DEFORMATION OF POLYETHYLENE. [Paper presented] to the Deutsche Physikalische Gesellschaft, Physics Session, Munchen, 7 Sep 56. 11p 7refs.
Order from SLA $1.60 TT-64-16812

Trans. of [Kolloid Zeitschrift und Zeitschrift für Polymere] (West Germany) 1957, v. 152, no. 1, p. 8-15.

Kornbaum, S.
COMPATIBILITY OF SOME LUBRICANTS, STABILIZERS AND PLASTICIZERS WITH POLYVINYL CHLORIDE. 7p (2 figs 3 tables omitted) 7refs.
Order from SLA $1.10 TT-64-18121

Trans. of Revista de Chimie (Rumania) 1962, v. 13, no. 3, p. 153-157.

Kosterhon, K. J.
THE MANUFACTURE OF VINYLCHLORIDE FROM PETROLEUM HYDROCARBONS. 14p 27refs.
Order from SLA $1.60 TT-64-18803

Trans. of Erdol [und] Kohle [-Erdgas-Petrochemie] (West Germany) 1958, v. 11 [no. 5] p. 312-[317].

Levantovskaya, I. L., Yazvikova, M. P., Dobrokhotova, M. K., Kovarskaya, B. M., and Vlasova, K. N.
THERMO-OXIDIZING DESTRUCTION AND STABILIZATION OF SOME POLYAMIDES. [9 p] 13refs.
Order from SLA $1.10 TT-64-18135

Trans. of Plasticheskie Massy (USSR) 1963, no. 3, p. 19-23.

Maeda, Seiichi, Miyake, Yasuhiko, and Adachi, Saburo.
METHOD OF GENERATING FORMALDEHYDE MONOMER. 14p.
Order from SA $16.00 SA Code P-355

Trans. in manuscript of published Japanese patent 17658/1963, cl. 16-B-511.1, appl. no. 32140/1960, appl. 22 Jul 60, pub. 10 Sep 63, by Toyo Koatsu Industries, Inc.

Morimoto, Saichi, Ishihara, Masao, and Hada, Takee.
METHOD OF MANUFACTURING POLYPROPYLENE FIBER. 17p.
Order from SA $16.00 SA Code-P-341

Trans. in manuscript of published Japanese patent 14,420/1962, cl. 42-D-21, 19 Sep 62, appl. no. 11,063/1960, 30 Mar 60, by Toyo Spinning Co., Ltd.

Morimoto, Saichi, Ishiwari, Osamu, and Hatori, Akira.
A METHOD FOR THE TREATMENT OF MOLDINGS CONTAINING POLY- OLEFINE. 9p.
Order from SA $19.00 SA Code P-351

Trans. of published Japanese patent 16335/1963, cl. 25-N-231 (26-B-11) (48-B-02) (26-B-022) (136-G-22) appl. no. 11090/1961, filed 29 Mar 61, pub. 29 Aug 63, by Toyo Boseki Co., Ltd.

Müller, Erwin and Hoppe, Peter.
METHOD FOR THE PREPARATION OF SEMIELASTIC FOAM MATERIALS. 4p.
Order from SLA $1.10 TT-64-18044

Trans. of German patent 897,014, by Farbenfabrik Bayer A. G., Leverkusen-Bayerwerk, pub. 16 Nov 53.

Nakaguchi, Kohei and Hirooka, Masaaki.
METHOD OF POLYMERIZING VINYL COMPOUNDS. 14p.
Order from SA $16.00 SA Code-P-322

Trans. in manuscript of published Japanese patent 20735/1963, 7 Oct 63, cl. 26-B-012 (26-B-151) (13-F-151) appl. No. 13237/1961, 13 Apr 61, by Sumitomo Chemical Industry Co., Ltd.

Nakaguchi, Kohei, Ando, Tatsuo, Hirooka, Masaaki, and Fujita, Toshimichi,
METHOD OF MANUFACTURING CRYSTALLINE HIGH-POLYMER OF HYDROCARBONS OF OLEFIN SERIES. 7p.
Order from SA $16.00 SA Code P-35

Trans. of published Japanese patent 14833/1963, cl. 26-B-11 (13-F-1) appl. no. 45294/1960, filed 11 Nov 60, pub. 14 Aug 63, by Sumitomo Chemical Industry Co., Ltd.

Nakanishi, Mikio.
A PROCESS FOR MANUFACTURE OF MELAMINE CHELATE RESINS. Jun 64, 4p.
Order from SA $16.00 SA Code P-311

Trans. of published Japanese patent 5290/1963, cl. 26 D 41 (13 C 131) appl. no. 39831/1960, 26 Sep 60, pub. 7 May 63.

Nakano, Senji and Fukutani, Hideo.
METHOD OF MANUFACTURING VINYL ETHER POLYMER. 5p.
Order from SA $16.00 SA Code-P-349

Trans. of published Japanese patent 13,791/1963, 31 Jul 63, cl. 26-B-131, appl. no. 20,882/1961, 15 Jun 61, by Mitsubishi Kasei Kogyo Co., Ltd.

Nakano, Senji, Iwasaki, Koichiro, and Fukutani, Hideo
METHOD OF MANUFACTURING CRYSTALLINE POLYVINYL ETHER. 5p.
Order from SA $16.00 SA Code-P-348

Trans. of published Japanese patent 7,887/1963, cl 26-B-131 (13-F-1) 3 Jun 63, appl. no. 21 565/1961, 16 Jun 61, by Mitsubishi Kasei Kogyo Co.

Natta, G. and Rigamonti, R.
STUDY OF VINYL POLYMERS WITH ELECTRON DIFFRACTION (Esame coi Raggi di Elettroni di Alcuni Polimeri Vinilici). [18 p] (foreign text included) 3refs.
Order from SLA $1.60 TT-64-16719

Trans. of Accad[emia] Naz[ionale dei] Lincei. Atti. Classe [di] Sci[enze] Fis[iche] Mat[ematiche e] Nat[urali]. Rend[iconti] (Italy) 1936 [ser.6] v. 24, p. 381-388.
Other translations are available from SLA $1.80 as TT-61-10453 (10p); $1.10 as TT-63-14122 (8p); and mi$2.40, ph$3.30 as TT-59-10813, 12p.

Noro, Takeshi, Morimoto, Goro, and Uemura, Eiichi.
METHOD FOR LOW TEMPERATURE POLYMERIZATION OF VINYL ACETATE. Jun 64, 7p.
Order from SA $16.00 SA Code-P-320

Trans. of published Japanese patent 18542/1963, cl. 26-B-131, appl. no. 31518/1961, 4 Sep 61, pub. 17 Sep 63, by Nippon Synthetic Chemical Industry Co., Ltd.

Okado, Hiroshi, Kamio, Kosaku, and Kojima, Shinpei.
A NOVEL METHOD FOR THE POLYMERIZATION OF ALDEHYDE. 8p.
Order from SA $16.00 SA Code-P-330

Trans. of published Japanese patent 9149/1963, cl. 26-C-118.2 (13-F-151) appl. no. 40941/1959, date of public notice 14 Jun 63, filed 28 Dec 59, by Nihon Kabaido Kogyo Co., Ltd.

Okado, Hiroshi, Kamio, Kosaku, and Kojima, Shinpei.
PROCESS FOR THE PRODUCTION OF ALDEHYDE HIGH POLYMER. 8p.
Order from SA $16.00 SA Code-P-325

Trans. of published Japanese patent 9148/1963, cl. 26-C-118.2 (13-F-151) appl. no. 39538/1959, date of public notice 14 Jun 63, filed 17 Dec 59, by Nihon Kabaido Kogyo Co., Ltd.

Omae, Chikara and Hasegawa, Noboru.
A METHOD FOR THE PRODUCTION OF VINYL PYRIDINES. 8p 1ref.
Order from SA $16.00 SA Code P-356

Trans. of published Japanese patent 18385/1963, cl. 16-E-431 (13-F-12) appl. no. 27372/1958, filed 26 Sep 58, pub. 16 Sep 63, by Nippon Gosei Kagaku-Kogyo Co., Ltd.

Pölzguter, F.
CRONING MOLDING-MASK PROCESS - NEW GERMAN MOLDING PROCESS. 22p (12 figs 2 refs omitted).
Order from SLA $2.60 TT-64-18888

Trans. of Giesserei (West Germany) 1952, v. 39, no. 19, p. 467-472.

Rottner, E.
PRACTICAL METHODS FOR THE UTILIZATION OF SEMI-FINISHED PRODUCTS OF LOW PRESSURE POLYETHYLENES. [Paper presented] at the Anniversary Session of the Swedish Plastics Association, Stockholm, Sweden, 31 Oct 56. 13p (some figs not reproducible).
Order from SLA $1.60 TT-64-16822

Trans. of Kunststoffe (West Germany) 1957, v. 47 [no. 4] p. 227-[231].
Another trans. is available from ATS as ATS-32J18G (8) p

Sakaba, Kenji, Harada, Toru, Ishizuka, Osamu, and Takahama, Michihiro.
METHOD OF IMPROVING THE DYEABILITY OF STEREOREGULAR POLYPROPYLENE-SYSTEM SYNTHETIC FIBER. 11p.
Order from SA $16.00 SA Code-P-332

Trans. in manuscript of published Japanese patent 11867/1963, 11 Jul 63, cl. 48-B-02 (48-B-1) (25-N-231) appl. no. 43051/1960, 29 Oct 60, by Nitto Spinning Co., Ltd.

Sofue, Hiroshi, Tabata, Yoneho, and Shibano, Hiroshi.
A PROCESS FOR POLYMERIZATION OF DIMETHYL FORMAMIDE. Jun 64, 4p.
Order from SA $16.00 SA Code P-309

Trans. of published Japanese patent 4694/1963, cl. 26 C 118 (136 G 21) appl. no. 3905/1961, 10 Feb 61, pub. 25 Apr 63, by Japan Radiation High Polymers Research Institute.

Staeger, R.
PLASTIC MASSES AND PROCESS FOR THEIR PREPARATION. 4p.
Order from SLA $1.10 TT-64-18452

Trans. of Swiss patent 258,304, pub. 2 May 49.

Stoeckhert, Klaus.
ON THE PRACTICE OF THE DETERMINATION OF MOLECULAR WEIGHTS OF HIGH POLYMERS. 3p (1 fig 1 table omitted).
Order from SLA $1.10 TT-64-18883

Trans. of Kunststoffe (West Germany) 1953, v. 43 [no. 1] p. 36-37.

Striegler, A. and others.
PROCESS FOR THE PRODUCTION OF MODIFIED CATION-ACTIVE UREA-FORMALDEHYDE RESINS. Jul 64.
Order from TTIS $9.00 TTIS NS 230

Trans. of East German patent 27,013, appl. 19 May 60, pub. 13 Feb 64.

Takashi, Yukichi, Aijima, Itsuho, Kobayashi, Yuji, and Tsunoda, Yoshio.
A PROCESS FOR POLYMERIZATION OF MONO-OLEFINS. 14p.
Order from SA $19.00 SA Code-P-345

Trans. of published Japanese patent 9,440/1963, 17 Jun 63, cl 26 B 11 (26 B 121)(13 F 1) appl. no. 12,842/1961, 11 Apr 61, by Asahi Kasei Kogyo Co., Ltd.

Takashi, Yukichi, Aijima, Itsuho, and Kobayashi, Yuji.
A PROCESS FOR POLYMERIZATION OF MONO-OLEFINS. 9p.
Order from SA $19.00 SA Code-P-347

Trans. of published Japanese patent 11,276/1963, 5 Jul 63, cl 26B11 (13F1) appl. no. 48,386/1960, 13 Dec 60, by Asahi Kasei Kogyo Co., Ltd.

Takashi, Yukichi, Aijima, Itsuho, Kobayashi, Yuji, and Tsunoda, Yoshio.
A PROCESS FOR POLYMERIZATION OF MONO-OLEFINS. 13p.
Order from SA $19.00 SA Code-P-346

Trans. of published Japanese patent 9,441/1963, 17 Jun 63, cl. 26 B 11 (13 f 1)(26 B 121) appl. no. 12,483/1963, 11 Apr 61, by Asahi Kasei Kogyo Co., Ltd.

Torigai, Sadao and Mukoyama, Eiji.
POLYACETAL COMPOSITE. 6p.
Order from SA $16.00 SA Code P-357

Trans. of published Japanese patent 29724/1963, cl. 25-H-712 (25-H-04) appl. 19131/1961, filed 2 Jun 61, pub. 7 Oct 61, by Toyo Rayon Co., Ltd.

Yoshimi, Nacki, Yamao, Masayoshi, and Tanaka, Shigeyuki.
STUDY ON THE HARDENING REACTION OF p-METHYLOL PHENOL BY GAS CHROMATOGRAPHY AND INFRARED ABSORPTION SPECTROSCOPY. Rept. 3 on Analytic Chemical Study of Phenol Resin. 6p (3 figs 2 tables 11 refs omitted) 2refs.
Order from SLA $1.10 TT-64-18129

Trans. of Kogyo Kagaku Zasshi (Japan) [1963] v. 66, no. 11, p. 1601-1604.

Yumoto, Ousuke, Hashimoto, Ken, and Tanaka, Shinji.
PROCESS FOR MANUFACTURING WRAPPING FILMS. 5p.
Order from SA $16.00 SA Code-P-329

Trans. of published Japanese patent 83/1964, 11 Jan 64, cl. 25 N 222.1 (134 A 1) (25 N 231.1) appl. no. 29290/1962, 12 Jul 62, by Toyo Rayon Co., Ltd.

Wagner, H. B. and Wagner, C. A.
PHOTOTROPIC LIGHT FILTER. 8p.
Order from SLA $1.10 TT-64-18492

Trans. of French patent 1,329,982, filed 27 July 62.

Rubber and Elastomers

Berlin, A. A., Drozdovskii, V. F., and Liogon'kii, B. I.
CONCERNING THE STRUCTURAL CROSS-LINKING OF RUBBER UNDER THE INFLUENCE OF POLY-AZOPHENYLENES (O Strukturirovanii Kauchukov Pod Vliyaniem Polyazofenilenov)
M. I. Weinreich, tr. 8 Oct 63, 3p 3refs.
Order from OTS or ETC HC $1.00 SC-T-513

Trans. of #Kauchuk i Rezina (USSR) 1963, v. 22, no. 3, p. 10ff.

Destable, André.
POLYETHYLENE AND RUBBER. 3p.
Order from SLA $1.10 TT-64-16808

Trans. of Revue Gènèrale du Caoutchouc (France) 1956, v. 33 [no. 6] p. 516-517.

Ikkaku, Y. and Ko, K.
THE ACTIVATION ENERGY AND VULCANIZATION TEMPERATURE COEFFICIENT OF INDIRECT VULCANIZATION, PT I. 51p 12refs.
Order from SLA $5.60 TT-64-16828

Trans. of Nihon Gomu Kyokaishi (Japan) 1962, v. 35, no. 12, p. 898-913.

Natta, G.
ISOTACTIC POLYMERS AND OTHER STEREOISOMERIC POLYMERS. [Paper presented] at the Congress of Industrial Chemistry (no. 29) Paris, 18-24 Nov 56. 28p (9 figs omitted) 32refs.
Order from SLA $2.60 TT-64-18085

Trans. of Chimie et Industrie (France) 1957, v. 77 [no. 5] p. 1009-[1031].

Wood and Paper

CORRUGATED BOARD WITH FLUTES GOING IN BOTH DIRECTIONS (Wellpappe mit Gekreuzten Wellenbahnen). 5p (foreign text included).
Order from SLA $1.10 TT-64-16516

Trans. of Neue Verpackung (West Germany) 1961, v. 14, no. 5, p. 436.

Becker, G.
NEW INFORMATION ON USE OF FLUORINE COMPOUNDS IN WOOD PRESERVATION. 7p 13refs.
Order from SLA $1.10 TT-64-18097

Trans. of Angew[andte] Chem[ie] (West Germany) 1950, v. 62 [no. 16] p. 382-385.

Maeno, Hiroo, Matsumoto, Yoshiyuki, and Takagamo, Toshio.
PROCESS FOR FABRICATION OF SPECIAL PAPER CLOTH. Jun 64, 7p.
Order from SA $16.00 SA Code-P-31

Trans. of published Japanese patent 7038/1963, cl. 27 E O (27 E 12) appl. 38328/1959, 10 Dec 59, pub. 25 May 63, by Nangoku Pulp Industries Co., Ltd.

Neusser, H.
MIXOLIT, A NEW HALF-HARD FIBREBOARD MADE BY A NEW WET PROCESS. 12p.
Order from SLA $1.60 TT-64-18170

Trans. of Holzforschung und Holzverwertung (Austria) 1963, v. 16, no. 4, p. 70-77.

Poles, G., Bianchi, E., Bossi, F.
THE BEHAVIOR OF CORRUGATED CARDBOARD UNDER COMPRESSION. PT, II. DESCRIPTION OF THE DIAGRAM OF THE SPECIMEN SUBJECTED TO THE CYCLE TEST (Sul Comportamento del Cartone Ondulato alla Compressione. II. Descrizione del Diagramma del Provino Sottoposto alla Prova dei Cicli). [Paper] presented at the National Congress on Packing (no. 10) n.d. [16p] (foreign text included).
Order from SLA $1.60 TT-64-18351

Trans. of Italia Grafica [1960?] v. 15, no. 13, p. 4-7.

MATHEMATICS

COMMUNIST CHINESE SCIENTIFIC ABSTRACTS
NO. 63. 13 Aug 64, 6p JPRS: 25909.
Order from OTS HC $1.00, MF $0.50 TT-64-41180

Trans. of selected abstracts from Referativnyi Zhurnal. Matematika (USSR) 1964, nos. 1-2.

Agranovich, Z. S. and Marchenko, V. A.
THE INVERSE PROBLEM OF SCATTERING THEORY
B. D. Seckler, tr. 1963, 290p 15refs
Order from GB $14.50

Trans. of mono. Obratnaya Zadacha Teorii Rasseyaniya [Kharkov, 1960, 267p].

Alekseev, N. I.
A NOE-PARAMETER FAMILY OF STRATIFIABLE ORTHOGONAL PAIRS. 15 Jun 64 [15p] FTD-MT-63-334; AD-602 402.
Order from OTS HC $1.00, MF $0.50 TT-64-11890

Edited machine trans. of Aviatsionnyi Institut, Moscow. Trudy (USSR) 1956, v. 61, p. 20-29.

Ba[khshiyan], F. A.
VISCO-PLASTIC FLOW AT THE IMPACT OF A CYLINDER ON A PLATE
Edward Rosicky, tr. Mar 64 [14p] 2refs
AD-602 179.
Order from OTS or ETC HC $1.00 TT-64-19346

Trans. from [Prikladnaya Matematika i Mekhanika] (USSR) 1948, v. 12 [no. 1, p. 47-52].

Berge, C.
CONNECTIVITY OF A GRAPH. 8p.
Order from SLA $1.10 TT-64-16916

Trans. of mono. Theorie des Graphes et ses Applications, Paris, 1958, p. 200-205.

Birman, M. Sh.
ON THE SPECTRUM OF SINGULAR BOUNDARY-VALUE PROBLEMS FOR ELLIPTIC DIFFERENTIAL EQUATIONS
M. L. Juncosa, tr. 5 Oct 55 [8p] 15refs T-51; AD-604 537.
Order from OTS HC $1.00 MF $0.50 TT-64-71242

Trans. from [Akademiya Nauk SSSR. Doklady] 1954, v. 97, no. 1.
Another trans. is available from SLA as 58-816, 7p.

Gnedenko, B. V. and Rvacheva, E. I.
ON A PROBLEM OF THE COMPARISON OF TWO EMPIRICAL DISTRIBUTIONS [Ob Odnoi Zadache Sravneniya Dvukh Empiricheskikh Raspredelenii]
H. P. Edmundson, tr. 2 Jun 55 [8p] 1ref T-45; AD-604 765.
Order from OTS HC $1.00, MF $0.50 TT-64-71259

Trans. of [Akademiya Nauk SSSR. Doklady] 1952, v. 82, no. 4, p. 513-516.
Also available from SLA as R-3587; other translations are available from SLA as RT-340, 7p; and from AMS $4.80 in Probability and Statistics, v. 1.

Korolyuk, V. S.
ASYMPTOTIC EXPANSIONS FOR THE DISTRIBUTION OF MAXIMUM DEVIATIONS IN THE BERNOULLI SCHEME,
H. P. Edmundson, tr. 7 Sep 56 [8p] 10refs T-66; AD-604 459.
Order from OTS HC$1.00, MF$0.50 TT-64-71239

Trans. of Akad[emiya] Nauk SSSR. Dokl[ady] 1956, v. 108 [no. 2] p. 183-186.
Another trans. is available from SLA as R-3757, 7p.

Krasovskii, N. N.
OPTIMAL CONTROL WITH RANDOM LOAD. 24 Jun 64 [17p] 14refs FTD-MT-64-20; AD-602 403.
Order from OTS HC $1.00, MF $0.50 TT-64-11891

Edited machine trans. of Sibirskii Matematicheskii Zhurnal (USSR) 1963, v. 4, no. 3, p. 622-631.

Kubilyus, Jonas.
PROBABILISTIC METHODS IN THE THEORY OF NUMBERS. Translations of Mathematical Monographs, v. 11
G. Burgie and S. Schuur, trs. 1964, 182p.
Order from AMS $8.60

Trans. of mono. [Veroyatnostnye Metody v Teorii Chisel, 2d ed., Vil'nius, 1962, 220p].

Lur'e, A. I.
THE DIRECT LYAPUNOV METHOD AND ITS APPLICATION IN THE THEORY OF AUTOMATIC REGULATION. [14p] 38refs.
Order from SLA $1.60 TT-64-16296

Trans. of mono. Trudy Vtorogo Vsesoyuznogo Soveshchaniya po Teorii Avtomaticheskogo Regulirovaniya. (All-Union Conference on the Theory of Automatic Regulation (no. 2). Proceedings) Moscow/Leningrad, 1955, v. 1, p. 142-148.
Another trans. is available from OTS $11.50 in TT-62-13610, JPRS-10975 [667p].

Luzin, N. N. and Kuznetsov, P. I.
ABSOLUTE INVARIANCE AND INVARIANCE TO ε IN THE THEORY OF DIFFERENTIAL EQUATIONS, III.
30 Jun 64 [7p] 1ref FTD-MT-63-325; AD-602 400.
Order from OTS HC $1.00, MF $0.50 TT-64-11888

Edited machine trans. of A[kademiya] N[auk] SSSR. Doklady, 1951, v. 80, no. 3, p. 325-327.

Manevich, V. A.
ON THE PRESENTATION OF ELEMENTS OF SYSTEMS OF COLLINEATIONS OF THE SECOND THIRD DEGREE AS PRODUCTS OF TWO POLAR CORRESPONDENCES AND ON CERTAIN PROPERTIES OF COLLINEATIONS, CONNECTED WITH THIS QUESTION. 24 Jun 64 [17p] 2refs FTD-MT-63-317; AD-602 399.
Order from OTS HC $1.00, MF $0.50 TT-64-11887

Edited machine trans. Matematicheskii Sbornik (USSR) 1957, v. 41(83) no. 2, p. 221-230.

Markov, A. A.
MATHEMATICAL LOGIC AND NUMERICAL ANALYSIS. 15 Jul 64 [11p] FTD-TT-64-500; AD-603 331.
Order from OTS HC $1.00, MF $0.50 TT-64-71160

Unedited rough draft trans. of Akademiya Nauk SSSR. Vestnik, 1957, v. 27, no. 8, p. 21-25.

Mash, V. A.
ONE METHOD OF SELECTING AN INSERTED VARIABLE IN THE SIMPLEX METHOD OF LINEAR PROGRAMMING.
29 Jul 64, 7p 6refs JPRS: 25637.
Order from OTS HC$1.00, MF$0.50 TT-64-31909

Trans. of Zhurnal Vychislitel'noi Matematiki i Matematicheskoi Fiziki (USSR) 1964, v. 4, no. 2, p. 376 379.

[Motzkin, Theodor].
THE THEORY OF LINEAR INEQUALITIES
D. R. Fulkerson, tr. 7 Mar 52 [90p] T-22; AD-604 770.
Order from OTS HC $3.00, MF $1.00 TT-64-71264

Trans. of an unidentified mono. n.p., n.d.

Oleinik, O. A.
ON THE CAUCHY PROBLEM FOR NONLINEAR EQUATIONS IN A CLASS OF DISCONTINOUS FUNCTIONS.
R. E. Kalaba, tr. 27 Jul 55 [11p] 3refs T-48; AD-604 538.
Order from OTS HC $1.00, MF $0.50 TT-64-71243

Trans. of Akademiya Nauk SSSR. Doklady, 1954, v. 95 [no. 3] p. 451-454.
Another trans. is available from SLA as R-3595, 9p.

Pshenichnyi, B. N.
A NUMERICAL METHOD OF SOLVING CERTAIN PROBLEMS OF OPTIMUM CONTROL. 29 Jul 64, 25p 8refs JPRS: 25636.
Order from OTS HC $2.00 MF $0.50 TT-64-31908

Trans. of Zhurnal Vychislitel'noi Matematiki i Matematicheskoi Fiziki (USSR) 1964, v. 4, no. 2, p. 292-305.

Rudolph, H.
ON THE SIMULATION OF DIFFERENTIAL EQUATIONS WITH AN ELECTRONIC ANALOG COMPUTER.
Order from BISI £3 15s BISI-3784

Trans. of Messen-Steuern-Regeln (East Germany) 1963, v. 6, no. 12, p. 498-501.

Sydow, A. and Dittmann, H.
STATISTICAL ANALYSIS AND THE USE OF ELECTRONIC ANALOG COMPUTERS.
Order from BISI 3 BISI-3785

Trans. of Messen-Steuern-Regeln (East Germany) 1963, v. 6, no. 12, p. 501-504.

Tikhonov, A. N. and Samarskii, A. A.
EQUATIONS OF MATHEMATICAL PHYSICS.
International Series of Monographs on Pure and Applied Mathematics, v. 39
A. R. M. Robson and P. Basu, trs. 1964, 765p.
Order from MACM $17.50

Trans. of mono. [Uravneniya Matematicheskoi Fiziki, Moscow, 1953].

Computing Devices

MATHEMATICAL SIMULATION AND ELECTRIC CIRCUITS (Matematicheskoe Modelirovenie i Elektricheskie Tsepi). 6 Apr 64, 322p JPRS: 24041.
Order from OTS HC $5.00 MF $1.75 TT-64-21989

Trans. of mono. Seminar po Metodam Matematicheskogo Modelirovaniya i Teorii Elektricheskikh Tsepei. Trudy, no. 1, Kiev, 1963, 247p.

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

TECHNICAL CYBERNETICS, 1964, no. 1. 1 May 64, 316p JPRS: 24536.
Order from OTS HC $5.00 MF $1.75 TT-64-31235

Trans. of Akademiya Nauk SSSR. Izvestiya. Tekhnicheskaya Kibernetika, 1964, no. 1, p. 3-208

For table of contents see the "Periodical Translated Cover-to-Cover" section of this issue.

Bardizh, V. V. and Perekatov, V. I.
HIGH SPEED COMPUTER MEMORIES. 7 Jul 64, 30p 6refs JPRS: 25360.
Order from OTS HC $1.00 MF $0.50 TT-64-31633

Trans. of mono. Flyuksor Kak Element Zapominayushchikh Ustroistv (The Flux-Core as a Memory Unit) Moscow, 1962, 48p.

Kvasha, Ya. and Korolev, M.
ELECTRONIC AUTOMATION AND PROGRAMMING: INDICES OF ELECTRONIC EQUIPMENT UTILIZATION [AND] THEORETICAL PROBLEMS OF AUTOMATIC ECONOMIC INFORMATION PROCESSING. 7 Jul 64, 23p JPRS: 25366.
Order from OTS HC $0.75 MF $0.50 TT-64-31639

Trans. of Vestnik Statistiki (USSR) 1964, no. 3, p. 8-15, 63-71.

MECHANICS

Andryankin, E. I., Kutateladze, S. S., Leont'ev, A. I., and Rubtsov, N. A.
THE COLLISION OF TWO PLATES WITH GREAT SPEED [AND] AN APPRAISAL OF THE ROLE OF RADIATION WHEN CALCULATING HEAT EXCHANGE IN A TURBULENT BOUNDARY LAYER. 17 Jun 64 [23p] 12refs FTD-MT-63-262; AD-602 404.
Order from OTS HC $1.00, MF $0.50 TT-64-11892

Edited machine trans. of Zhurnal Prikladnoi Mekhaniki i Tekhnicheskoi Fiziki (USSR) 1963, no. 4, p. 68-73, 88-93.

Cristescu, N.
ON WAVES OF LOADING AND UNLOADING, ARISING FROM THE MOTION OF AN ELASTIC OR PLASTIC FLEXIBLE FIBRE
J. H. Huth, tr. 23 Aug 55 [22p] 9refs T-49; AD-604 535.
Order from OTS HC $1.00, MF $0.50 TT-64-71240

Trans. of Prikladnaya Matematika i Mekhanika (USSR) 1954, v. 18, [no. 3] p. 257-264.
Another trans. is available from SLA as R-3740.

Galimov, N. K.
STABILITY OF A SANDWICH CYLINDRICAL SHELL WITH A LIGHT FILLER UNDER THE EFFECT OF UNIFORM EXTERNAL PRESSURE. 8p 3refs.
Order from SLA $1.10 TT-64-18419

Trans. of Izv[estiya Vysshikh] U[chebnykh] Z[avedenii]. Aviats[ionnaya] Tekh[nika] (USSR) 1964 [v.7] no. 1, p. 47-53.

Godzevich, V. G. and Ivanova, O. V.
FREE VIBRATIONS OF CIRCULAR CONICAL AND CYLINDRICAL SHELLS REINFORCED BY RING STIFFENER RIBS. 6p 7refs.
Order from SLA $1.10 TT-64-18422

Trans. of Izv[estiya] V[ysshikh] U[chebnykh] Z[avedenii]. Aviats[ionnaya] Tekh[nika] (USSR) 1964 [v. 7] no. 1, p. 54-59.

Grigoliuk, E. I. and Prisekin, V. L.
DYNAMIC INTERACTION OF AN ORTHOTROPIC CYLINDRICAL SHELL WITH AN ACOUSTIC SHOCK-WAVE. 14p 7refs.
Order from SLA $1.60 TT-64-18425

Trans. of A[kademiya] N[auk] SSSR. O[tdelenie] T[ekhnicheskikh] N[auk]. Izv[estiya]. Mekh[anika] i Mashio-[stroenie] 1963, no. 6, p. 25-35.
Another trans. is available from SLA $1.60 as TT-64-14806, 13p.

Klimov, D. M.
NOTES ON THE DYNAMICS OF CARDAN SUSPENSION. 14 Jul 64 [8p] 6refs FTD-TT-64-416; AD-602 876.
Order from OTS HC $1.00, MF $0.50 TT-64-71130

Unedited rough draft trans. of Akademiya Nauk SSSR. Izvestiya: Mekhanika i Mashinostroenie, 1963, no. 4, p. 7-9.

Kolokol'tsov, N. A.
ON THE FLOW OF A VISCOUS INCOMPRESSIBLE FLUID BETWEEN TWO ROTATING DISCS. 4p 6refs.
Order from SLA $1.10 TT-64-18426

Trans. of A[kademiya] N[auk] SSSR. O[tdelenie] T[ekhnicheskikh] N[auk]. Izv[estiya]. Mekh[anika] i Mashinostro[enie] 1963, no. 6, 66-68.

Li, Yu-ch'ang.
CONFERENCE ON FLUID MECHANICS [SHANGHAI, OCT 63]. 10 Jun 64, 2p JPRS: 25016 (p. 29-30).
Order from OTS HC $1.00 MF $0.50 in TT-64-31451 (p. 29-30)

Trans. of K'o Hsüeh T'ung Pao (Chinese People's Republic) 1964, no. 3, p. 273.

Malkina, R. L.
FREE VIBRATIONS OF A SPHERICAL CUPOLA. 9p 3refs.
Order from SLA $1.10 TT-64-18423

Trans. of Izv[estiya] V[ysshikh] U[chebnykh] Z[avedenii]. Aviats[ionnaya] Tekh[nika] (USSR) 1964, [v.7] no. 1, p. 67-74.

Schuler, M.
THE PERTURBATION OF PENDULUM AND GYROSCOPE INSTRUMENT BY ACCELERATION OF THE VEHICLE
W. E. Frye, tr. 16 Jun 52 [16p] T-24; AD-604 771.
Order from OTS HC $1.00, MF $0.50 TT-64-71265

Trans. of Physik[alische] Zeitschr[ift] (Germany) 1923, v. 24 [no. 16] p. 344-[350].
Also available from SLA as 58-772; other translations are available from SLA mi$2.40, ph$3.30 as TT-59-15222, 20p and as TT-62-10303, 12p.

Aerodynamics and Pneumatics

FUNDAMENTAL AERODYNAMIC STUDIES IN THE DEVELOPMENT OF THE PEENEMUNDE ARROW SHELLS 2p.
Order from SLA $1.10 TT-64-18179

Partial trans. of Wasserbau Versuchsanstalt, Kochelsee G. m. b. H. (Germany) Rept. 66/97, n. d.

Guderley, G. and Hantsch, E.
OPTIMUM SHAPES FOR AXIALLY SYMMETRICAL SUPERSONIC THRUST NOZZLES
Klaus G. Liebhold, tr. 4 Sep 47 [44p] 2refs T-1; AD-604 789.
Order from OTS HC $2.00, MF $0.50 TT-64-71283

Trans. of unidentified German language mono., n. p., n. d.
Also available from SLA as 58-775, 37p.

Hantzsche, W. and Wendt, H.
THE LAMINAR BOUNDARY LAYER ON A CONE IN A SUPERSONIC AIR STREAM AT ZERO ANGLE OF ATTACK
K. G. Liebhold, tr. 13 Nov 47 [8p] 2refs T-6; AD-604 783
Order from OTS HC $1.00, MF $0.50 TT-64-71277

Trans. of mono. die Laminare Grenzschicht bei einem mit Überschallgeschwindigkeit Angeströmten Nichtangestellten Kreiskegel, n. p., n. d.
Also available from SLA as 58-665.

Kai, Fritz.
APPLICATION OF THE MATHEMATICAL TREATMENT OF SHOCK FRONTS AND VORTEX FLOW TO A BODY CONSISTING OF A CONE AND A CYLINDER (Anwendung der Rechnerischen Behandlung von Strossfront und Wirbelströmung auf einen aus Kegel und Zylinder Zusammengesetzten Körper). [24p].
Order from SLA $2.60 TT-64-18175

Trans. of mono. (report) from the Dresden Technical University (Germany) Archive 44/14, 23 Sep 44.

Kuksenko, B. V.
METHOD OF CALCULATION OF FLOW OF RAREFIELD GAS. 3 Jun 64 [10p] 3refs FTD-MT-64-114; AD-602 308.
Order from OTS HC $1.00, MF $0.50 TT-64-11843

Edited machine trans. of A[kademiya] N[auk] SSSR. Doklady, 1963, v. 151, no. 5, p. 1042-1045.
Another trans. is available from AIP $4.00 in Soviet Physics-Doklady, 1964, v. 8, no. 8.

Schäfer, M.
A COMPARISON BETWEEN THE STREAM FILAMENT THEORY OF GAS DYNAMICS AND THE AXIALLY SYMMETRIC FLOW THEORY (Vergleich der Gasdynamischen Stromfadentheorie mit Rotationssymmetrischen Gasströmungen). [6p].
Order from SLA $1.10 TT-64-18176

Trans. of mono. (report) from the Dresden Technical University (Germany) Archive 44/7 n. d.

Hydrodynamics, Hydraulics, and Hydrostatics

Grizodub, Yu. N.
ON THE CALCULATION OF THE PROPAGATION OF HARMONIC PERTURBATIONS IN A LIQUID WHICH FILLS SERIALLY AND PARALLELY CONNECTED PUMP AGGREGATE PIPES (O Raschete Rasprostraneniya Garmonicheskikh Vozmushchenii v Zhidkosti, Napolnyayushchei Sistemy Posledovatel'no u Parallel'no Soedinennykh Trub Nasosnykh Agregatov)
Elmar K. Wilip, tr. May 64 [12p] 8refs.
Order from OTS or ETC HC $1.00 ANL-Trans-24

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1951, v. 21, no. 5, p. 564-572.

Yasinskii, S. Ya.
HYDRAULIC AMPLIFIER. 7 Jul 64 [5p] FTD-TT-64-36 AD-602 995.
Order from OTS HC$1.00, MF$0.50 TT-64-711

Unedited rough draft trans. of Russian patent 158,738, appl. no. 761,512/25-8, 27 Jan 62.

METALLURGY

IMPROVED METALLURGICAL METHODS AND PRODUCTS. 32p.
Order from SLA $3.60 TT-64-18111

Trans. of French patent 1,284,537, by E. I. du Pont de Nemours and Co., U. S., file no. 829,847, 13 June 60, pub. 8 Jan 62 (Bulletin Officiel de la Proprieté Industrielle (France) 1962, no. 7).

INADEQUATE UTILIZATION OF PRODUCTION CAPACITIES OF ARMENIAN NONFERROUS METALLURGICAL ENTERPRISES. USSR Industrial Development: Soviet Nonferrous Metallurgy no. 95. 10 Jul 64, 2p
JPRS: 25434.
Order from OTS HC $0.50 MF $0.50 TT-64-31707

Trans. from Kommunist, Erevan (USSR) 1964, 15 Apr, p. 2.

Avram, C.
COMBINED USE OF METHANE AND OXYGEN-ENRICHED BLAST IN BLAST FURNACES. Jul 64, 5900 words.
Order from HB $17.70 HB-5797

Trans. from Metalurgia si Constructia de Masini (Rumania) 1962, v. 14, no. 9.

Babarykin, N. N., Gruzinov, V. K., Fialkov, B. S., Kopyrin, I. A., and Zherebin, B. M.
BASIC LAWS OF THE DISTRIBUTION OF MATERIALS IN THE BLAST FURNACE THROAT; ON THE NATURE OF THE RELATIONSHIP BETWEEN VOLUME AND PRESSURE OF BLAST SUPPLIED TO A BLAST FURNACE; THE RESIDENCE TIME OF GASES IN A FURNACE FROM EXPERIMENTAL DATA; ON SOME METHODS OF CONTROLLING BLAST FURNACE PROCESS AND ITS AUTOMATION.
Order from BISI £ 25 BISI-3757

Abridged trans. of 4 papers from mono. [Domennyi Protsess po Noveishim Issledovaniyam] (Blast Furnace Process According to Most Recent Investigations) Moscow, 1963, p. 84-111, 127-145, 296-303.

Beisswänger, H.
VARIOUS SPECIAL DEEP DRAWING METHODS. 25p (22 figs omitted) 10refs.
Order from SLA $2.60 TT-64-18882

Trans. of Werkstatt und Betrieb (West Germany) 1951, v. 84, no. 5 [p. 225-231].

Borowski, K., Maatsch, J., and Sieberg, G.
REFINING OF HIGH-CARBON FERROCHROMES BY OXYGEN BLOWING. Jul 64, 3500 words.
Order from HB $8.80 HB-6236

Trans. of Technische Mitteilungen Krupp. Forschungsberichte (West Germany) 1963, v. 21, no. 4, p. 123-127.

Claussen, F. and Gleissner, G.
THE ELECTROTECHNICAL CHARACTERISTICS OF A NEW COLD-ROLLING TANDEM TRAIN. Aug 64.
Order from BISI £ 10 5s BISI-3723

Trans. of Stahl und Eisen (West Germany) 1964, v. 84 [no. 7] p. 389-403.

Dudko, D. A. and Rublevskii, I. N.
CHANGES IN SLAG COMPOSITION DURING A PROCESS OF ELECTRO-SLAG WELDING. Jul 64.
Order from BISI £ 3 5s BISI-3779

Trans. of Avtomaticheskaya Svarka (USSR) 1958 [v. 11] no. 6(63) p. 51-55.

Dudko, D. A. and Rublevskii, I. N.
INFLUENCE OF THE TYPE AND POLARITY OF THE CURRENT ON METALLURGICAL PROCESSES DURING ELECTRO-SLAG WELDING. Jul 64.
Order from BISI £ 6 10s BISI-3780

Trans. of Avtomaticheskaya Svarka (USSR) 1958 [v. 11] no. 3(60) p. 69-78.

Garger, K. S., Sergienko, I. V., and Volkov, L. G.
USE OF A COMPUTER FOR CALCULATING CHEMICAL COMPOSITION OF IRON BEING POURED FROM A MIXER INTO A CONVERTER. 21 Jul 64, 5p 6refs JPRS: 25524.
Order from OTS HC $0.50 MF $0.50 TT-64-31796

Trans. of Metallurgicheskaya i Gornorudnaya Promyshlennost' (USSR) 1964, no. 2, p. 24-26.

Gassner, Ernst and Svenson, Otto.
EFFECT OF PARASITE OSCILLATIONS ON FATIGUE STRENGTH (Einfluss von Störschwingungen auf die Ermüdungsfestigkeit). [9p] (foreign text included).
Order from SLA $1.10 TT-64-18355

Partial trans. (summary and conclusion only) of Stahl und Eisen (West Germany) 1962, v. 82, no. 5, p. 276-282.
A complete trans. is available from ATS $16.75 as ATS-48Q71G, 15p.

Gisen, Fritz and Glocker, Richard.
X-RAY DETERMINATIONS OF THE TEMPORARY MODIFICATION OF THE RESIDUAL STRESS CONDITION IN ALTERNATING BENDING STRESS (Röntgenographische Bestimmungen der Zeitlichen Änderung des Eigenspannung szustandes bei Biegewechselbeanspruchung). [6 p] (foreign text included) 4refs.
Order from SLA $1.10 TT-64-18182

Trans. of Zeitschrift für Metallkunde (Germany) 1938, v. 30 [no. 9, p. 297-298].

Hayashi, Hitoshi, Tsurugi, Junzo, Takahashi, Tokiji, Ando, Kaichi, and Kondo, Hiromi.
METHOD OF MANUFACTURING ALUMINUM CONTINUOUSLY FROM ALUMINUM SUB-HALIDE GAS. 18p.
Order from SA $16.00 SA Code-P-339

Trans. in manuscript of published Japanese patent 12805/1963, 22 Jul 63, cl. 10-D-121, appl. no. 43029/1961, 27 Nov 61, by Showa Electro-Industry Co., Ltd.

Horstmann, D.
THE EFFECT OF THE SHEET MATERIAL AND GALVANIZING CONDITIONS ON THE PROPERTIES OF GALVANIZED SHEET AND STRIP. Jul 64.
Order from BISI £ 9 BISI-3579

Trans. of Stahl und Eisen (West Germany) 1963, v. 83 [no. 23] p. 1467-1477.

Ivanov, O. S., ed.
STRUCTURE AND PROPERTIES OF URANIUM, THORIUM AND ZIRCONIUM ALLOYS: SELECTED CHAPTERS. 24 Apr 64, 39p JPRS: 24347.
Order from OTS HC $1.25 MF $0.75 TT-64-31154

Trans. of mono. Stroenie i Svoistva Splavov Urana, Toriya i Tsirkoniya, Moscow, 1963, p. 16-21, 47-76, 294-298.

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

Khenkin, M. L., Levina, N. K., Spektorova, S. I., Abramov, V. I., and Grishchenko, V. G.
INVESTIGATION OF SOME CASING ALLOYS FOR HIGH-PRECISION PARTS. 8 Jul 64, 17p 5refs
JPRS: 25391.
Order from OTS HC $0.50 MF $0.50 TT-64-31664

Trans. of Liteinoe Proizvodstvo (USSR) 1964, no. 3, p. 27-31.

Krächter, H.
NONDESTRUCTIVE TESTING OF BOILER AND SUPERHEATER TUBING BY THE MANNESMANN AG. Jul 64, 3800 words.
Order from HB $9.60 HB-6226

Trans. of V[ereinigung der] G[rosskessel]b[esitzer]. Mitteilungen (West Germany) 1964, no. 88, p. 26-33.

Lenz, Dieter.
INVESTIGATION OF A NEW HOT DEEP DRAWING PROCESS. 26p (24 figs 2 tables omitted) 9refs.
Order from SLA $2.60 TT-64-18893

Trans. of Archiv für das Eisenhüttenwesen (West Germany) 1951, v. 22, no. 7/8, p. 215-224.
Another trans. is available from SLA as No. 1934 (39p)

Maas, H.
PRINCIPLES OF VACUUM STREAM DEGASSING (WITH DISCUSSION).
Order from BISI 4 15s BISI-3792

Trans. of Revue de Metallurgie (France) 1963, v. 60 [no. 5] p. 421-425.

Maatsch, J.
FLOW UNDER THE AREA OF IMPINGEMENT OF AN UNRESTRAINED GAS JET STRIKING THE SURFACE OF A LIQUID AT RIGHT ANGLES.
Order from BISI 3 15s BISI-3696

Trans. of Technische Mitteilungen Krupp. Forschungsberichte (West Germany) 1963, v. 21, May, p. 1-4.

Meyer, G., Gerstenberg, B., and Schwabe, G.
SINTER PRODUCTION AND PROPERTIES [AND] THE RAISING OF BLAST-FURNACE OUTPUT BY SIZING THE SINTER. Discussions of a paper by G. Schwabe and H. Rellermeyer.
Order from BISI 7 BISI-3717A

Trans. of Stahl und Eisen (West Germany) 1964, v. 84 [no. 6] p. 361-364; [no. 8] p. 479-482.

Moritz, Eugen.
INTEGRATED WORK PREPARATION, DATA DETERMINATION AND PROCESSING WITH PUNCHED CARDS FOR A NEW HEAVY-PLATE MILL (Integrierte Arbeitsvorbereitung, Datenerfassung und-Verarbeitung mit Lochkarten für ein Neues Grobblechwalzwerk). 20p (foreign text included).
Order from SLA $1.60 TT-64-18343

Trans. of Stahl u[nd] Eisen (West Germany) 1963, v. 83 no. 26, p. 1691-1695.

Nokivov, A. N. and others.
TAR-BONDED DOLOMITE-MAGNESITE UNBURNT REFRACTORIES FOR THE BASIC OXYGEN FURNACE. Jul 64, 1800 words.
Order from HB $4.80 HB-6277

Trans. of Ogneupory (USSR) 1964, v. 29, no. 5, p. 197-200.

Pogodina-Alekseev, G. I. and Shchelokov, K. F.
PRODUCTION OF CAST METAL OXIDE COMPOSITIONS WITH THE USE OF ULTRASONIC VIBRATIONS. Jul 64, 1800 words.
Order from HB $3.80 HB-6279

Trans. of Liteinoe Proizvodstvo (USSR) 1963, no. 8, p. 26-27.

Polovchenko, I. G. and others.
DESULFURIZATION OF PIG IRON WITH MAGNESIUM OUTSIDE THE BLAST FURNACE. Jul 64, 2000 words.
Order from HB $5.80 HB-6288

Trans. of Izvest[iya] V[ysshikh] U[chebnykh] Z[avedenii]. Chern[aya] Met[allurgiya] (USSR) 1964 [v. 7] no. 4, p. 31-36.

Tokunaga, Y.
THE S-CURVE OF MOLYBDENUM NICKEL CAST IRON CONTAINING NODULAR GRAPHITE. Jul 64.
Order from BISI 25 BISI-3652

Trans. of Imono (Japan) 1961, v. 33 [no. 3] p. 190-201.

Torkar, K. and Weitzer, H. H.
THE USE OF A MICROSCOPE HOT STAGE IN POWDER METALLURGY. Jul 64, 2500 words.
Order from HB $6.80 HB-6263

Trans. of Zeitschrift [für] Metallkunde (West Germany) 1964, v. 55, no. 3, p. 142-145.

Trömel, G. and Gürl, E.
THE FORMATION OF SLAG IN THE BASIC OPEN-HEARTH PROCESS. Jul 64.
Order from BISI 7 15s BISI-3583

Trans. of Stahl und Eisen (West Germany) 1963, v. 83 [no. 17] p. 1035-1051.

Wartmann, R.
DERIVATION, SYNTHESIS AND CALCULATING PROCESSES FOR A MATHEMATICAL MODEL OF A BLAST FURNACE, PT. II. Aug 64.
Order from BISI £ 2 15s BISI-3675

Trans. of Archiv für das Eisenhüttenwesen (West Germany) 1964, v. 35 [no. 1] p. 15-20.

Wartmann, R.
DEVELOPMENT, DESIGN AND CALCULATION PROCESSES OF A MATHEMATICAL MODEL OF THE BLAST FURNACE, PT. V.
Order from BISI £ 4 15s BISI-3755

Trans. of Archiv für das Eisenhüttenwesen (West Germany) 1964, v. 35 [no. 4] p. 373-380.

Zamotorin, M. I.
DIAGRAM OF STATE OF ALLOYS OF CALCIUM WITH LITHIUM. 7p (4 figs omitted) 6refs
Order from SLA $1.10 TT-64-18500

Trans. of Metallurg [Leningrad] (USSR) 1938, v. 13, no. 1, p. 96-99.
Another trans. is available from K-H $8.00 as K-H-5866-b, 8p.

Ferrous Metals

USSR INDUSTRIAL DEVELOPMENT: SOVIET FERROUS METALLURGY NO. 195. 1 Jul 64, 18p JPRS: 25324.
Order from OTS HC $0.50 MF $0.50 TT-64-31597

Trans. of selected articles and newsbriefs from Apr-May 64 issues of various Russian journals and newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET FERROUS METALLURGY NO. 198. 22 Jul 64, 12p JPRS: 25547.
Order from OTS HC $0.50 MF $0.50 TT-64-31819

Consists of 4 articles from 1964 issues of Russian newspapers and journals.

USSR INDUSTRIAL DEVELOPMENT: SOVIET FERROUS METALLURGY NO. 199. 28 Jul 64, 87p JPRS: 25606.
Order from OTS HC $3.00 MF $0.75 TT-64-31878

Trans. of 18 selected articles from Jan-May 64 issues of 3 Russian journals and newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET FERROUS METALLURGY NO. 200. 29 Jul 64, 33p JPRS: 25628.
Order from OTS HC $2.00 MF $0.50 TT-64-31900

Trans. of 12 selected articles from Apr-Jun 64 issues of various Russian journals and newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET FERROUS METALLURGY NO. 201. 30 Jul 64, 20p JPRS: 25646.
Order from OTS HC $1.00 MF $0.50 TT-64-31918

Trans. of 7 selected articles from Apr-Jun 64 issues of various Russian journals and newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET FERROUS METALLURGY NO. 202. 31 Jul 64, 26p JPRS: 25681.
Order from OTS HC $2.00 MF $0.50 TT-64-31953

Trans. of 25 selected articles from Jun-Jul 64 issues of various Russian newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET FERROUS METALLURGY NO. 204. 12 Aug 64, 26p JPRS: 25878.
Order from OTS HC $2.00 MF $0.50 TT-64-41149

Trans. of 7 selected articles and brief news items from Jun-Jul 64 issues of various Russian journals and newspapers.

Bragard, A., Parmentier, P., and Meunier, G.
PELLETIZATION OF MINETTE IRON ORE AND ITS ROASTING IN A ROTARY FURNACE. Jul 64.
Order from BISI 5 15s BISI-3704

Trans. of Revue Universelle des Mines (France) 1964 [v. 107, ser. 9, v. 20, no. 4] p. 1-8.

Briefs, H.
METALLURGICAL ASPECTS OF MODERN DEVELOPMENTS IN TOOL STEELS. Aug 64.
Order from BISI 10 15s BISI-3689

Trans. of Schweizer Archiv [für Angewandte Wissenschaft und Technik] 1963, v. 29 [no. 12] p. 413-427.

Höller, P. and Dick, W.
AUTOMATION IN THE SPECTROMETRIC ANALYSIS OF STEEL AND PIG IRON, AND IN THE TRANSMISSION OF THE RESULTS. Jul 64, 4900 words.
Order from HB $13.50 HB-6124

Trans. of Stahl und Eisen (West Germany) 1963, v. 83, no. 23, p. 1490-1497.

Hsü, Tseng-chi, Polyakov, A. Yu., and Samarin, A. M.
THERMODYNAMIC CHARACTERISTICS OF INTERACTION BETWEEN CARBON AND OXYGEN IN MOLTEN IRON. Jul 64.
Order from BISI 6 BISI-3743

Trans. of mono. [Soveshchanie po Primeneniyu Vakuuma v Metallurgie] (Conference on the Use of Vacuum in Metallurgy) (no. 3). [Trudy] Moscow, 1963, p. 3-9.

Kostkuba, J.
CLEANING STEEL BY SCARFING.
Order from BISI £ 10 15s BISI-3742

Trans. of Hutnik (Czechoslovakia) 1962, v. 12, no. 7, p. 339-347.

Kreulitsch, H.
THE FLAME SCARFING OF SLAB FOR THE MANUFACTURE OF SHEET AND STRIP WITH THE HIGHEST SURFACE QUALITIES. Aug 64.
Order from BISI £ 6 15s BISI-3508

Trans. of Stahl und Eisen (West Germany) 1963, v. 83 [no. 22] p. 1348-1356.

Legendre, P. and Wache, X.
EXPERIMENTAL STUDY OF AUSTENITE FORMATION IN HIGH-NICKEL STEELS.
Order from BISI £ 5 15s BISI-3728

Trans. of Revue de Metallurgie. Memoires Scientifiques (France) 1964, v. 61 [no. 1] p. 33-42.

Pertsov, M. A. and Filonov, I. G.
GOALS OF THE SCIENTIFIC-TECHNICAL SOCIETY OF FERROUS METALLURGY IN LIGHT OF THE PARTY DECISIONS ON ACCELERATED DEVELOPMENT OF THE CHEMICAL INDUSTRY [AND] DNEPROVSKOE METALLURGICAL PLANT IMENI DZERZHINSKII -- 75 YEARS OLD. USSR Industrial Development: Soviet Ferrous Metallurgy no. 197. 20 Jul 64, 13p JPRS: 25516.
Order from OTS HC $0.50 MF $0.50 TT-64-31788

Trans. of Stal' (USSR) 1964 [v. 24] no. 5, p. 385-391.

Rist, A. and Bonnivard, G.
REDUCTION OF AN IRON OXIDE BED WITH A GAS. I. THEORETICAL STUDY ASSUMING INFINITE REACTION VELOCITIES. Aug 64.
Order from BISI £10 10s BISI-3679

Trans. of Revue de Metallurgie (France) 1963, v. 60 [no. 1] p. 23-37.

Schleicher, W., Lutz, H., and Graf, H.
ON THE USE OF LOW-SULFUR, SMALL-SIZE LIME IN THE BASIC OXYGEN LD PLANT OF BOCHUMER VEREIN. Jul 64, 6200 words.
Order from HB $15.50 HB-6237

Trans. of Technische Mitteilungen Krupp. Forschungsberichte (West Germany) 1963, v. 21, no. 4, p. 139-146.

Scimar, R.
THERMODYNAMIC STUDY OF THE DEOXIDATION OF STEEL. Jul 64.
Order from BISI 11 BISI-3595

Trans. of Revue Universelle des Mines (France) 1963, v. 106 [ser. 9, v. 19, no. 10] p. 403-418. Another trans. is available from SLA $2.60 as TT-64-14257 [29p].

Sofroni, L. and Nicoloiu, E.
DISSOCIATION OF METHANE WHEN USED FOR FLUSHING LIQUID CAST IRON. Jul 64, 2500 words.
Order from HB $7.50 HB-6199

Trans. of [Academia Republicii Populare Romine. Centrul de Cercetari Metalurgice]. Studii si Cercetari de Metalurgie, 1963, v. 8, no. 2, p. 191-199.

Nonferrous (except light) Metals

USSR INDUSTRIAL DEVELOPMENTS: SOVIET NONFERROUS METALLURGY NO. 96. 23 Jul 64, 6p JPRS: 25558.
Order from OTS HC $0.50 MF $0.50 TT-64-31830

Trans. of 21 news briefs from Mar, May-Jun 64 issues of various Russian newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET NONFERROUS METALLURGY NO. 98. 31 Jul 64, 16p JPRS: 25662.
Order from OTS HC $1.00 MF $0.50 TT-64-31934

Trans. of 3 selected articles from Mar-May 64 issues of various Russian journals and newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET NONFERROUS METALLURGY NO. 100. 9p JPRS: 25915.
Order from OTS $1.00, MF $0.50 TT-64-41186

Trans. of 3 articles and 14 news briefs from Jun-Aug 64 issues of various Russian newspapers.

Anikin, P., Faizulin, N., and Klepikov, M.
WIDER UTILIZATION OF RARE METALS ADVOCATED [AND] FIRST CHEMICAL AND METALLURGICAL COMBINE IN EASTERN KAZAKHSTAN BEING BUILT. USSR Industrial Development: Soviet Nonferrous Metallurgy No. 97. 28 Jul 64, 7p JPRS: 25613.
Order from OTS HC$1.00, MF$0.50 TT-64-31885

Trans. from Izvestiya (USSR) 1964, 26 May, p. 4; Kazakhstanskaya Pravda (USSR) 1964, 5 Jun, p. 2.

Chizhikov, D. M., Frents, G. S., and Tratsevitskaya, B. Ya.
THE MECHANISM AND KINETICS OF THE OXIDATION OF LEAD SULFIDE BY OXYGEN. 19p (6 figs omitted) 4refs.
Order from SLA $1.60 TT-64-18400

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya, 1949, no. 9, p. 1352-1360.

Denisov, E. and Davoyan, A.
CHEMICAL INDUSTRY FACILITIES NOT READY ON SCHEDULE. USSR Industrial Development: Soviet Nonferrous Metallurgy no. 99. 12 Aug 64, 3p
JPRS: 25867.
Order from OTS HC $1.00 MF $0.50 TT-64-41138

Trans. from Kommunist, Erevan (USSR) 1964, 31 May, p. 2.

Vatrushin, L. S.
SPREAD DURING FLAT ROLLING OF COPPER. [9p] 5refs.
Order from OTS or ETC HC $1.00 AEC-tr-6411

Trans. of Izv[estiya] Vysshikh Ucheb[nykh] Zaved[enii]. Tsvetn[aya] Met[allurgiya] (USSR) 1962, v. 5, no. 1, p. 142-149.
Another trans. is available from ATS $9.75 as ATS-29Q71R, 9p.

Structural Metallurgy and Corrosion

Franssen, N.
GRAIN GROWTH IN METALS (Kornwachstum in Metallen) 41p (foreign text included) 50refs.
Order from SLA $4.60 TT-64-18522

Trans. of Metall (West Germany) 1964, v. 18, no. 1, p. 8-16.

Hauffe, Karl.
THE APPLICATION ON WAGNER'S THEORY OF TARNISHING REACTIONS TO THE DEVELOPMENT OF ALLOYS RESISTANT TO DRY CORROSION. [Paper] presented at the Main Assembly of the German Society for Metal Science, Goslar, Aug 49. 18p (7 figs 1 table 22 formulae omitted) 40refs.
Order from SLA $1.60 TT-64-18861

Trans. of Z[eitschrift für] Metallkunde (West Germany) 1951, v. 42 [no. 2] p. 34-43.

Houdremont, E., Janssen, K., Sommerkorn, G. and Fahlenbrach, H.
CONTRIBUTIONS TO THE STRUCTURE AND ANISOTROPY OF COLD-ROLLED AND RECRYSTALLIZED IRON-COBALT-VANADIUM ALLOYS WITH A 50% COBALT CONTENT. 23p 5refs.
Order from SLA $2.60 TT-64-16582

Trans. of Techn[ische] Mitt[eilungen] Krupp (West Germany) 1957, v. 15, no. 1, p. 13-22.
Another trans. is available from SLA as 58-1535 (11p)

Koroleva, V. A. and Sherstyuk, M. I.
ELIMINATION OF SEVERE BRITTLENESS IN HOT ROLLED TRANSFORMER STEEL (Ustranenie Povyshennoi Khrupkosti Goryachekatanoi Transformatornoi Stali). Jul 64 [11p] RTS-2477.
Order from OTS or ETC HC $1.00, MF $0.50 TT-64-19390

Trans. of Stal' (USSR) 1956 [v. 16] no. 6, p. 545-548.

Moskvichev, G. S. and Gerasimov, V. V.
THE EFFECT OF COMPOSITION OF WATER ON THE ANODIC BEHAVIOUR OF ALUMINUM. 7p (2 figs omitted) 14refs.
Order from SLA $1.10 TT-64-18524

Trans. of mono. Korroziya Reaktornykh Materialov: [Sbornik Statei, (Corrosion of Reactor Materials: Collection of Articles) Moscow]

Podbreznik, F.
SOME CLIMATOLOGICAL PROBLEMS ENCOUNTERED IN CORROSION OF METALS. [19p] (8refs omitted)
Order from SLA $1.60 TT-64-18353

Trans. of Metalloberfläche (West Germany) [1963] v. 17, no. 7, p. 197-202.

Popov, A. A.
THEORETICAL BASES OF CHEMICAL HEAT TREATMENT OF STEEL. 21 Jul 64, 133p 66refs JPRS: 25521.
Order from OTS HC $2.75 MF $1.00 TT-64-31793

Trans. of mono [Teoreticheskie Osnovy Khimiko-Termicheskoi Obrabotki Stali] Sverdlovsk, 1962 [118p].

Schaaber, O.
FORMATION, ORIGIN AND PHYSICAL CONTROL OF THE STRUCTURE OF CAST METALS. Jul 64.
Order from BISI 12 10s BISI-3738

Trans. of Radex-Rundschau (Austria) 1964, no. 1, p. 20-41.

Schwaab, P.
A NEW MICROSCOPE FOR MEASURING ELECTRON DIFFRACTION PATTERNS. Jul 64.
Order from BISI £ 2 10s BISI-3763

Trans. of Zeitschrift für Wissenschaftliche Mikroskopie [und Mikroskopische Technik] (West Germany) 1964, v. 65, no. 7, p. 430-433.

[Vinarov, S. M.]
AIRCRAFT METAL SCIENCE: SECT. IV, CHAPS. 4-8 AND SECT. V, CHAPS. 1-4. 30 Mar 64 [269p] FTD-MT-63-207; AD-602 906.
Order from OTS HC $6.00, MF $1.50 TT-64-71138

Edited machine trans. of mono. Aviatsionnoe Metallovedenie, Moscow, 1962, p. 271-419.

NUCLEAR PHYSICS AND NUCLEAR CHEMISTRY

Adloff, Jean-Pierre and Adloff-Bacher, Madeleine.
APPLICATION OF THE Te^{132} I^{132} DISINTEGRATION TO THE PREPARATION OF LABELED MOLECULES (Application de la Desintegration Te^{132} I^{132} à la Preparation de Molecules Marquees). [22p] 10refs
Order from OTS or ETC HC $1.00 AEC-tr-5758

Trans. from mono. Conference on Practical Applications of Short-Life Radioisotopes Produced in Small Research Reactors, Vienna, 5-9 Nov 62. Proceedings (IAEA preprint).

Arkhipov, M.
RED STAR SERIES ON ATOMIC ENERGY. PT. IV. THE PHYSICS OF A NUCLEAR EXPLOSION
F. J. Krieger, tr. [12p] T-35, pt. 4; AD-604 782.
Order from OTS HC $1.00, MF $0.50 TT-64-71276

Trans. from Krasnaya Zvezda (USSR) 1954, 20 Mar, p. 3. Also available from SLA as R-3582, 11p.

Barmin, V. V., Dolgolenko, A. G., Krestnikov, Yu. S., Meshkovskii, A. G., and Shebanov, V. A.
INVESTIGATION OF THE CHARGE-EXCHANGE $\pi^- + p \rightarrow n + \pi^0$ AND $\pi^- p \rightarrow n + n$ $(n \rightarrow 2\gamma)$ REACTION IN THE 1.25-4.5 BeV/c REGION. A. T. Sanders, tr. 1963 [15p] 12refs NP-tr-1128.
Order from OTS or ETC HC $1.00 TT-64-19308

Trans. of #Zh[urnal] Eksperim[ental'noi] i Teor[eticheskoi] Fiz[iki] (USSR) 1964, v. 46 [no. 1] p. 142-147.

Blaise, A. and Peuch, M. A.
TRANSLATION BALANCE FOR MEASURING MAGNETIC SUSCEPTIBILITIES AT HIGH OR LOW TEMPERATURE (Balance de Translation pour la Mesure des Susceptibilities Magnetiques à Haute ou Basse Temperature]
E. R. Appleby, tr. 23 Sep 63 [26p].
Order from OTS or ETC HC $2.00 HW-TR-57

Trans. of C[ommissariat a l'] E[nergie] A[tomique, Paris] (France) no. 2187, 1962.

Cindro, Nikola.
THE 600-KILOVOLT ELECTROSTATIC ACCELERATOR AT THE SCHOOL OF ENGINEERING IN SPLIT.
31 Jul 64, 10p JPRS: 25692.
Order from OTS HC $1.00 MF $0.50 TT-64-31964

Trans. of Tehnika (Yugoslavia) 1964 [v. 19] no. 6, p. 1011-1014.

Donets, E. D., Shchegolev, V. A., and Ermakov, V. A.
SYNTHESIS OF ELEMENT 102 ISOTOPE WITH MASS NUMBER 256 [Sintez Izotopa 102-go Elementa s Massovym Chislem 256)
E. B. Uvarov, tr. Jan 64 [40p] 20refs
NP-tr-1137.
Order from OTS or ETC HC $2.00 TT-64-19306

Trans. of Joint Inst. for Nuclear Research, Dubna (USSR) P-1383, 1963 (pub. in #Atomnaya Energiya (USSR) 1964, v. 16, no. 3, p. 195-206.
Another trans. of p. 1-26 is available from OTS or ETC as AEC-tr-6369, Feb 64 [28p]. HC $2.00, MF $0.50

Doroshenko, G. G., Glagolev, V. I., Barabanov, I. R., and Filyushkin, I. V.
A NEW METHOD FOR MEASURING CONTINUOUS FAST NEUTRON SPECTRA: THE COUNTING EFFICIENCIES METHOD (Nobyi Metod Izmereniya Nepreryvnykh Spektrov Bystrykh Neitronov: Metod Schetnykh Effektivnostei). [9p] 10refs.
Order from OTS or ETC HC $1.00 AEC-tr-6277

Trans. of mono. Conference on Neutron Dosimetry, Harwell, 10-14 Dec 62. Proceedings, v. 1, 1963, p. 337-343 (STI/PUB/69).

Fernandez, B.
FORTRAN PROGRAM FOR CALCULATING ABSORPTION AND DOUBLE SCATTERING CORRECTIONS IN FAST NEUTRON CROSS-SECTION MEASUREMENTS USING THE MONTE CARLO METHOD
A. L. Monks, tr. [10p] 2refs.
Order from OTS or ETC HC $1.00 ORNL-tr-79

Trans. of C[omissariat a l'] E[nergie] A[tomique, Paris] (France) no. 2374, 1963.

Filippov, N. V., Filippova, T. I., and Vinogradov, V. P.
A DENSE HIGH TEMPERATURE PLASMA IN THE REGION OF A NON-CYLINDRICAL ACCUMULATION OF THE Z-PINCH [Plotnaya Vysoktemperaturnaya Plasma v Oblasti Netsilindricheskoi Kumlyatsii Z-Pincha]
Sergey Shewchuck, tr. [9p] 8refs.
Order from OTS or ETC HC $1.00
UCRL-trans-735(L)

Trans. of mono. [Conference on Plasma Physics and Controlled Nuclear Fusion Research Salzburg, 4-9 Sep 61. Proceedings, paper no. 226 (IAEA [CN-10]226).

Lyuboshits, V. L. and Podgoretskii, M. I.
ON A POSSIBLE METHOD FOR THE DETERMINATION OF THE MAGNETIC MOMENT OF Σ^+ HYPERON (O Vozmozhnom Metode Opredeleniya Magnitnogo Momenta Σ^+ Giperona)
E. K. Wilip. tr. Jun 64 [9p] 7refs.
Order from OTS or ETC HC $1.00 ANL-Trans-32

Trans. of preprint of Joint Institute for Nuclear Research, Dubna (USSR) P-1513, 1964, p. 1-10.

Perette, J. and Maugest, J.
USE OF ALPHA RADIATION FOR THE INDUSTRIAL MEASUREMENT OF SURFACE WEIGHT. 12p.
Order from SLA $1.60 TT-64-16497

Trans. of mono. Conference on the Use of Radioisotopes in the Physical Sciences and Industry, Saint-Denis, 6-17 Sep 60. Proceedings, Vienna, 1962, v. 2, p. 109-127.

Reformatskii, I. A.
SAFETY IN LABORATORY USE OF RADIOACTIVE SUBSTANCES. 18 Aug 64, 36p 19refs JPRS: 25963.
Order from OTS HC $2.00 MF $0.50 TT-64-41234

Trans. of mono. Laboratorii dlya Rabot s Radioaktivnymi Veshchestvami (Laboratories Working With Radioactive Substances) Moscow, 1963, chap. 6, p. 71-88, appendices 1-3, p. 110-118, literature and contents.

Spitsyn, V. I., Rozenfel'd, I. L., Persyantseva, V. P., Zamoshnikova, N. N., and Kuzina, A. F.
INHIBITING PROPERTIES OF THE PERTECHNETATE ION. [13p].
Order from OTS or ETC HC $1.00 ORNL-tr-32

Trans. of Russian language article from unidentified source, n.d.

Tribalat, S. and Beydon, J.
ISOLATION OF TECHNETIUM. 8p 6refs.
Order from SLA $1.10 TT-64-18347

Trans. of Analytica Chimica Acta (Netherlands) 1953, v. 8 [no. 1] p. 22-28.

Vyalov, G. N.
CALCULATION OF PHASE RELATIONSHIPS IN THE CYCLOTRON
E. W. Kendall, tr. Dec 63 [8p] 2refs
NP-tr-1133.
Order from OTS or ETC HC $1.00 TT-64-19307

Trans. of Joint Inst. for Nuclear Research, Dubna (USSR) P-1343, 1963.

Yutsis, A. P., Kibartas, V. V., Glembotskii, I. I.
SOLUTION OF SIMPLIFIED FOCK EQUATIONS IN BICONFIGURATIONAL APPROXIMATION FOR THE BERYLLIUM TYPE OF ATOMS (Reshenie Uproshchennykh Uravnenii Foka v Dvukhkonfiguratsionnom Priblizhenni dlya Atomov Tipa Berilliya)
E. K. Wilip, tr. Apr 64 [8p] 7refs.
Order from OTS or ETC HC $1.00 ANL-Trans-16

Trans. of Zh[urnal] E[ksperimental'noi i] T[eoreticheskoi] F[iziki] (USSR) 1954 [v. 27] no. 4, p. 425-430.

Yutsis, A. P., Shugurov, V. K., and Tsyunaitis, G. K.
TRIPLET SPLITTING OF ATOMIC TERMS WITH TWO VALENT 2p-ELECTRONS (Tripletnoe Rasshcheplenie Termov Atomov s Dvumya Valentnymi 2p-Elektronami)
E. K. Wilip, tr. May 64 [11p] 12refs.
Order from OTS or ETC HC $1.00 ANL-Trans-25

Trans. of Zhurnal Eksp[erimental'noi] i Teoret[icheskoi] Fiz[iki (USSR) 1952, v. 23, no. 5(11) p. 517-524.

Elementary Particles

Bopp, F.
ON THE SPIN AND THE STRUCTURE OF ELECTRONS, Klaus G. Liebhold and Nancy C. McMillan, trs. Jan 51 [14p] 11refs T-21; AD-604 777.
Order from OTS HC $1.00, MF $0.50 TT-64-71271

Trans. of mono. paper presented at a meeting of the Physikalische Gesellschaft in Bayern, Munich, 22 Oct 48. Another trans. is available from SLA as 58-778.

Sanger, Eugen.
ON THE ROLE OF THE PHOTONIC GAS IN THE EXPLOSION PROCESS. 9p 5refs.
Order from SLA $1.10 TT-64-16502

Trans. of Industrie Chimique Belge, 1955, v. 20, special no., p. 289-292.

Nuclear Engineering and Power

ATOMIC DEVELOPMENTS IN THE SOVIET UNION: AN ATOMIC INDUSTRY PROJECT AT ANGARA, SIBERIA [AND] URANIUM DEPOSITS IN THE SOVIET UNION (TWO GERMAN NEWS ITEMS)
E. W. Schnitzer, tr. 22 Apr 55 [8p] T-43; AD-604 769.
Order from OTS HC $1.00, MF $0.50 TT-64-71263

Trans. from Wehrtechnische Hefte (West Germany) 1955, Feb.
Also available from SLA as 58-682.

PROJECT "ROCK'N ROLL": STABILITY EXPERIMENTS FOR BOILING LIGHT-WATER REACTOR FOR MARITIME PURPOSES (THE PROBLEM AND SUGGESTIONS FOR ITS SOLUTION). [51p].
Order from OTS or ETC HC $3.00 AEC-tr-3874

Trans. of mono. Prosjekt "Rock'n Roll": Stabilitetseksperimenter for Kokende Lettvannsreaktorer til Maritime Formal. Problemstilling og Forslag til Losning, Kjeller, Aug 59.

Arkhipov, M.
RED STAR SERIES ON THE PROBLEMS OF UTILIZING ATOMIC ENERGY. PT. III. NUCLEAR REACTORS
F. J. Krieger, tr. [1955] [10p] T-42, pt. 3; AD-604 763.
Order from OTS HC $1.00 MF $0.50 TT-64-71257

Trans. from Krasnaya Zvezda (USSR) 1954, 7 Sep, p. 3.
Also available from SLA as R-3401, and as R-00530, 9p.

Artamkin, V.
ON AN ATOMIC AIRPLANE
C. M. Weber, Jr., tr. 14 Oct 58 [10p] 25refs T-106; AD-604 773.
Order from OTS HC $1.00, MF $0.50 TT-64-71267

Trans. of Atomnaya Energiya (USSR) 1958 [v. 4, no. 4, p. 389-391].

Astashenkov, P.
RED STAR SERIES ON THE PROBLEMS OF UTILIZING ATOMIC ENERGY. PT. VII. THE ATOMIC INDUSTRY, 2
F. J. Krieger, tr. [10p] T-42, pt. 7; AD-604 760.
Order from OTS HC $1.00 MF $0.50 TT-64-71254

Trans. from Krasnaya Zvezda (USSR) 1955, 19 Jan, p. 2.
Also available from SLA as R-3586; another trans. is available from SLA as R-527, 9p.

Broothaerts, J., Cammozzo, G., Decock, J., Francesconi, A., and Florin, A.
RECENT PROGRESS IN THE DOMAIN OF REPROCESSING BY VOLATILIZATION
R. G. Mansfield, tr. [23p]
Order from OTS or ETC HC $2.00 ORNL-tr-65

Trans. from mono. Symposium on the Chemistry of Aqueous Processing of Irradiated Fuels, Brussels, 23-26 Apr 63, Session V (morning) Rept. no. 17b.

Komanov, A.
RED STAR SERIES ON THE PROBLEMS OF UTILIZING ATOMIC ENERGY. PT. VI. THE ATOMIC ENERGY. PT. VI. THE ATOMIC INDUSTRY, 1
F. J. Krieger, tr. [10p] T-42, pt. 6; AD-604 759.
Order from OTS HC $1.00 MF $0.50 TT-64-71253

Trans. from Krasnaya Zvezda (USSR) 1955, 11 Jan, p. 3.
Also available from SLA as R-3410; another trans. is available from SLA as R-528, 10p.

Leipunskii, A. I., Kazachkovskii, O. D., Abramov, A. I., Aleksandrov, Yu. A., and Aristarkhov, N. N.
PHYSICAL CHARACTERISTICS OF THE BR-5 REACTOR (Fizicheskie Kharakteristiki Reaktora BR-5)
E. K. Wilip, tr. Apr 64 [22p] 5refs.
Order from OTS or ETC HC $2.00 ANL-Trans-9

Trans. of mono. [Seminar po Fizike Reaktorov na Bystrykh i Promezhutochnykh Neitronakh (Seminar on the Physics of Fast and Intermediate Reactors) Vienna, 3-11 Aug 61. Proceedings, v. 3, p. 315-334.

Mikhailov, V. and Mkrtychev, M.
RED STAR SERIES ON ATOMIC ENERGY. PT. VI. ATOMIC ENERGY IN THE SERVICE OF THE NATIONAL ECONOMY
F. J. Krieger, tr. [1954] 10p T-35, pt. 6; AD-604 780.
Order from OTS HC $1.00, MF $0.50 TT-64-71274

Trans. from Krasnaya Zvezda (USSR) 1954, 7 Apr, p. 3.
Also available from SLA as R-3585; another trans. is available from SLA as R-538, 10p.

Naumenko, I.
RED STAR SERIES ON THE PROBLEMS OF UTILIZING ATOMIC ENERGY. PT. IV. THE NUCLEAR POWER STATION
F. J. Krieger, tr. [1955] 10p T-42, pt. 4; AD-604 762.
Order from OTS HC $1.00 MF $0.50 TT-64-71256

Trans. from Krasnaya Zvezda (USSR) 1954, 11 Sep, p. 3.
Also available from SLA as R-3400, and as R-00529, 10p.

Nesmeyanov, A.
RED STAR SERIES ON THE PROBLEMS OF UTILIZING ATOMIC ENERGY. PT. VIII. THE USE OF RADIOACTIVE SUBSTANCES IN TECHNOLOGY
F. J. Krieger, tr. [10p] T-42, pt. 8; AD-604 756.
Order from OTS HC $1.00 MF $0.50 TT-64-71250

Trans. from Krasnaya Zvezda (USSR) 1955, 13 Mar, p. 3.
Also available from SLA as R-3575.

Pokrovskii, G.
RED STAR SERIES ON THE PROBLEMS OF UTILIZING ATOMIC ENERGY. PT. V. THE NUCLEAR FUEL ENGINE
F. J. Krieger, tr. [10p] T-42, pt. 5; AD-604 761.
Order from OTS HC $1.00 MF $0.50 TT-64-71255

Trans. from Krasnaya Zvezda (USSR) 1954, 15 Sep, p. 3.
Also available from SLA as R-3399; another trans. is available from SLA as R-523, 9p.

Nuclear Reactions

Arkhipov, M.
RED STAR SERIES ON ATOMIC ENERGY. PT. V. THE THERMONUCLEAR REACTION WITH HYDROGEN
F. J. Krieger, tr. [1954] 10p T-35 pt. 5; AD-604 781.
Order from OTS HC $1.00, MF $0.50 TT-64-71275

Trans. from Krasnaya Zvezda (USSR) 1954, 26 Mar, p. 3.
Also available from SLA as R-3583; another trans is available from SLA as R-539, 10p.

Kapchigashev, S. P., Popov, Yu. P., and Komochkov, M. M.
CAPTURE CROSS SECTIONS FOR NEUTRONS WITH ENERGY TO 50 KEV SEVERAL STRUCTURAL MATERIALS [AND] ACTIVATION OF VARIOUS MATERIALS DURING THEIR IRRADIATION BY PROTONS WITH ENERGIES OF 660 MEV. 25 Jun 64 [24p] 33refs
FTD-MT-64-171; AD-602-398.
Order from OTS HC $1.00, MF $0.50 TT-64-11886

Edited machine trans. of #Atomnaya Energiya (USSR) 1963, v. 15, no. 2, p. 120-130.

Mkrtychev, M.
RED STAR SERIES ON ATOMIC ENERGY. PT. III. NUCLEAR REACTIONS
F. J. Krieger, tr. [10p] T-35, pt. 3; AD-604 519.
Order from OTS HC $1.00, MF $0.50 TT-64-71247

Trans. from Krasnaya Zvezda (USSR) 1954, 4 Mar, p. 3.
Other translations are available from SLA as R-3581, 10p and RT-1410, 6p.

Pokrovskii, G. and Arkhipov, M.
RED STAR SERIES ON ATOMIC ENERGY. PT. XI. THE PHYSICS OF THE BEHAVIOR OF NUCLEAR FORCES IN THE ATMOSPHERE AND AT SEA
F. J. Krieger, tr. [1954] 10p T-35, pt. 11; AD-604 778.
Order from HC $1.00, MF $0.50 TT-64-71272

Trans. from Krasnaya Zvezda (USSR) 1954, 4 Jun, p. 3.
Also available from SLA as R-534; another trans. is available from SLA as R-3568, 10p.

Radioactivity

Bibergal', A. V., Leshchinskii, N. I., Margulis, U. Ya., and Krushchev, V. G.
SOME PROBLEMS OF CALCULATION AND DESIGN OF HIGH ACTIVITY GAMMA UNITS (Nekotorye Voprosy Rascheta i Proektirovaniya Moshchnykh Gamma-Ustanovok) [17p] 15refs.
Order from OTS or ETC HC $1.00 AEC-tr-6118

Trans. of mono. Conf[erence on the Application of Large Radiation Sources in Industry and Especially to Chemical Processes] Warsaw, 8-12 Sep 59. Proceedings, v. 1, Vienna, 1960, p. 163-177 (STI/PUB/12).
Another trans. is available from SLA $1.60 as TT-63-10847, 2 Aug 61 [20p].

Glushko, A.
RED STAR SERIES ON ATOMIC WEAPONS AND ANTIATOMIC DEFENSE PT. IV. UTILIZING THE PROTECTIVE PROPERTIES OF THE TERRAIN
F. J. Krieger, tr. [9p] T-41, pt. 4; AD-604 517.
Order from OTS HC $1.00 MF $0.50 TT-64-71245

Trans. from Krasnaya Zvezda (USSR) 1954, 25 Aug, p. 2.
Another trans. is available from SLA as R-3406, 9p.

Glushko, A.
RED STAR SERIES ON ATOMIC WEAPONS AND ANTIATOMIC DEFENSE. PT. VI. DEACTIVATION OF CONTAMINATED TERRAIN
F. J. Krieger, tr. [9p] T-41, pt. 6; AD-604 518.
Order from OTS HC $1.00 MF $0.50 TT-64-71246

Trans. from Krasnaya Zvezda (USSR) 1954, 28 Aug, p. 2.
Another trans. is available from SLA as R-3404.

Kulish, E. E. and Fradkin, G. M.
COBALT-60 AND CESIUM-137 GAMMA SOURCES (Gamma-Istochniki iz Kobal'ta-60 i Tseziya-137). [18p] 5refs
Order from OTS or ETC HC $1.00 AEC-tr-6117

Trans. of mono. Conf[erence on the Application of Large Radiation Sources in Industry and Especially to Chemical Processes] Warsaw, 8-12 Sep 59. Proceedings, v. 1, Vienna, 1960, p. 149-162 (STI/PUB/12).

PHYSICS

COMMUNIST CHINESE SCIENTIFIC ABSTRACTS NO. 56. 23 Jun 64, 7p JPRS: 25225.
Order from OTS HC $0.50 MF $0.50 TT-64-31545

Trans. of selected abstracts from Referativnyi Zhurnal. Fiz[ika] (USSR) 1963, no. 11; 1964, nos. 1-3.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: PHYSICS AND MATHEMATICS NO. 29. 2 Jul 64, 7p JPRS: 25336.
Order from OTS HC $0.50 MF $0.50 TT-64-31609

Consists of abstracts of articles from the scientific and technical journals of East Germany and Rumania.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: PHYSICS AND MATHEMATICS NO. 30. 10 Jul 64, 17p JPRS: 25422.
Order from OTS HC $0.50 MF $0.50 TT-64-31695

Abstracts trans. of Kernenergie (East Germany) 1964, v. 7, no. 4, p. 197-271, 279-280; no. 5, p. 281-359, 361-363.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: PHYSICS AND MATHEMATICS NO. 31. 22 Jul 64, 21p JPRS: 25543.
Order from OTS HC $0.75 MF $0.50 TT-64-31815

Consists of abstracts of articles from the scientific and technical journals of Czechoslovakia and Hungary.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: PHYSICS AND MATHEMATICS NO. 32. 27 Jul 64, 10p JPRS: 25596.
Order from OTS HC $1.00 MF $0.50 TT-64-31868

Consists of abstracts of articles from selected scientific and technical journals of East Germany and Hungary.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: PHYSICS AND MATHEMATICS NO. 33. 31 Jul 64, 15p JPRS: 25690.
Order from OTS HC $1.00 MF $0.50 TT-64-31962

Consists of abstracts of articles from selected scientific and technical journals of Czechoslovakia and East Germany.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: PHYSICS AND MATHEMATICS NO. 34. 12 Aug 64, 4p JPRS: 25862.
Order from OTS HC $1.00, MF $0.50 TT-64-41133

Abstract trans. of Magyar Fizikai Folyoirat (Hungary) 1964, v. 12, no. 2, p. 111-212; Magyar Tudomanyos Akademia Matematikai es Fizikai Tudomanyok Osztalyanak Kozlemenyei (Hungary) 1964, v. 14, no. 2, p. 113-159.

NUCLEAR WEAPONS EFFECTS: COMPILATION OF ABSTRACTS. JAN 56-MAR 64. Rept. no. 1 on AID Work Assignment no. 66. 1 Jul 64, 26p 31refs
AID P-64-44; AD-602 358.
Order from OTS HC $2.00 MF $0.50 TT-64-11877

USSR SCIENTIFIC ABSTRACTS: PHYSICS AND MATHEMATICS NO. 10. 24 Jul 64, 88p JPRS: 25567.
Order from OTS HC $2.25 MF $0.75 TT-64-31839

Consists of abstracts of articles from USSR scientific and technical journals.

Averkiev, V. P.
HYDROACOUSTICAL STATION "PALTUS": FISH FINDING SONAR "PALTUS". 24 Jul 64, 32p
JPRS: 24635 rev.
Order from OTS HC $2.00 MF $0.50
TT-64-31276 rev.

Trans. of mono. Sudovye Rybopoiskovye i Elektronavigatsionnye Pribory (Marine Fish Scouting and Electronavigation Instruments) Leningrad, 1963, chap. 6, p. 75-90.

Daniel, E.
ELECTRICAL AND MAGNETIC PROPERTIES OF DILUTE ALLOYS OF TRANSITION METALS IN COPPER, GOLD AND HYDROGENATED PALLADIUM. [18p] (7 figs omitted) 22refs.
Order from SLA $1.60 TT-64-18345

Trans. of Physics and Chemistry of Solids (U. S.) 1962, v. 23, p. 975-983.

Vavilov, V. S., Nolle, E. L., Egorov, V. D., and Vintovkin, S. I.
RECOMBINATION RADIATION IN CADMIUM TELLURIDE DURING EXCITATION BY PULSES OF FAST ELECTRONS. 2 Jul 64, 11p 10refs JPRS: 25344.
Order from OTS HC $0.50 MF $0.50 TT-64-31617

Trans. of #Fizika Tverdogo Tela (USSR) 1964, v. 6, no. 5, p. 1406-1412.

Yutsis, A. P.
FOCK EQUATIONS IN MULTICONFIGURATIONAL APPROXIMATION (Uravneniya Foka v Mnogokonfiguratsionnom Priblizhenii)
E. K. Wilip, tr. May 64 [14p] 9refs.
Order from OTS HC $1.00 ANL-Trans-27

Trans. of Zhurnal Eksperimental'noi i Teoret[icheskoi] Fiz[iki] (USSR) 1952, v. 23, no. 2(8) p. 129-139.

Yutsis, A. P. and Kavetskis, V. I.
CONFIGURATION INTERACTION IN ATOMIC SPECIES OF BERYLLIUM TYPE (Vzaimodeistve Konfiguratsii v Atomakh Tipa Berillya)
Stuart W. Kellogg, tr. Aug 63 [14p] 9refs
AmMetSoc-T-R-405; AD-602 147.
Contract AF 19 604 6113.
Order from OTS HC $1.00 MF $0.50 TT-64-11819

Trans. of Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki (USSR) 1951, v. 21, no. 10, p. 1139-1145.

Yutsis, A. P., Dagis, R. S., Vizbaraite, Ya. I., and Zhvironaite, S. A.
IMPROVED EXPRESSIONS FOR THE MATRIX ELEMENTS OF OPERATORS OF SPIN-DEPENDENT INTERACTIONS (Utochnenie Vyrazhenii dlya Matrichnykh Elementov Operatorov Spinovogo Vzaimodeistviya)
Robert Magruder and Stuart W. Kellogg, trs. Sep 63 [20p] 10refs AmMetSoc-T-R-399; AD-602 146.
Contract AF19 604 6113.
Order from OTS or ETC HC $1.00 MF $0.50
TT-64-19342

Trans. of Akademiya Nauk Litovskoi SSR [Vilna]. Trudy. Ser[iya] B, 1961, no. 3(26) p. 53-66.

Electricity and Magnetism

Abramson, I. S. and Marshak, I. S.
A HIGH-POWER ELECTRIC SPARK IN AIR AT ATOMSPHERIC PRESSURE (O Moshchnoi Elektricheskoi Iskre v Vozdukhe pri Atmosfernom Davlenii)
Mahlon Glascock, tr. Dec 63, 18p 10refs
AmMetSoc-T-R-414; AD-602 128.
Contract AF 19 604 6113
Order from OTS HC $1.00 MF $0.50 TT-64-11821

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1942, v. 12, no. 10, p. 632-639.

Balebanov, V. M., Glasko, V. B., Groshev, A. L., Kuznetsov, V. V., and Sveshnikov, A. G.
AN INVESTIGATION OF THE MOTION OF INDIVIDUAL CHARGED PARTICLES IN CORRUGATED" MAGNETIC FIELDS
J. Stuart, tr. Oct 63 [41p] 11refs NP-tr-1119.
Order from OTS or ETC HC $2.00 TT-64-19309

Trans. of #[Atomnaya Energiya] (USSR) 1963, v. 15, [no. 4] p. 318-319.
Another trans. is available from SLA $1.10 as TT-64-18013, 6p.

Brion, G.
IONIZATION SURFACES AND THEIR ACTION IN ELECTRICAL GAS PURIFICATION. 10p (5 figs omitted) 5refs.
Order from SLA $1.10 TT-64-16206

Trans. of Elektrotechnische Zeitschrift. [Ausgabe A. Zentralblatt für Elektrotechnik] (Germany) 1939, v. 60, p. 1113-1115.

Electronics

EAST EUROPEAN SCIENTIFIC ABSTRACTS: ELECTRONICS AND ENGINEERING NO. 32. 12 Aug 64, 8p
JPRS: 25863.
Order from OTS HC $1.00, MF $0.50 TT-64-41134

Abstract trans. of Sdelovaci Technika (Czechoslovakia) 1964, v. 12, no. 6, p. 208-228.

EAST EUROPEAN SCIENTIFIC ABSTRACTS: ELECTRONICS AND ENGINEERING NO. 33. 13 Aug 64, 18p JPRS: 25912.
Order from OTS HC $1.00, MF $0.50 TT-64-41183

Consists of abstracts of articles from the scientific and technical journals of East Germany, Hungary and Rumania.

Ageikin, V. S., Barmnovskii, O. A., Bibik, V. F., Gorodetskii, D. A., and Ishchuk, V. A.
CONFERENCE ON THE PHYSICAL BASES OF CATHODE ELECTRONICS (NO. 11) [KIEV, NOV 63]. 10 Aug 64, 31p JPRS: 25811.
Order from OTS HC $2.00 MF $0.50 TT-64-41082

Trans. of #Radiotekhnika i Elektronika (USSR) 1964 [v. 9] no. 6, p. 1099-1113.

Firkowicz, S.
ELECTRONICS: MAXIMAL PERMITTED CURRENT LOAD OF OXIDE-CATHODES. 6p 3refs.
Order from SLA $1.10 TT-64-16953

Trans. of [Polska Akademia Nauk]. Bull[etin]: Serie des Sciences Tech[nique] 1960, v. 8, no. 11/12, p. 655-660.
Another trans. is available from SLA $1.10 as TT-63-14448 (6)p.

Franz, W[alter].
DIELECTRIC BREAKDOWN. 58p 7refs.
Order from SLA $5.60 TT-64-16611

Trans. of excerpts from Handbuch der Physik (West Germany) 1956, v. 17, Dielektrika, p. 201-219, 240, 246-248, 251-252.

Ginzburg, V. L.
QUANTUM THEORY OF THE RADIATION OF LIGHT OF AN ELECTRON WITH UNIFORM MOTION IN A MEDIUM. [32p] 7refs.
Order from SLA $3.60 TT-64-16955

Trans. of Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki (USSR) 1940, v. 10, no. 6, p. 589-600.

Inose, Hiroshi, Kawai, Yoichi, and Yasuda, Yasuhiko.
THE SIGNALLING AND TONE SYSTEM FOR AN EXPERIMENTAL TIME-DIVISION EXCHANGE FEATURING DELTA MODULATION TECHNIQUES. [12p] 4refs.
Order from SLA $1.60 TT-64-16964

Trans. of [Denki Tsushin Gakkai Zasshi] (Japan) 1962, v. 45, no. 5, p. 637-641.

Kesaev Igor' Georgievich.
CATHODE PROCESSES IN THE MERCURY ARC. 1964, 345p.
Order from CB $17.50

Trans. of mono. [Katodnye Protsessy Rtytnoi Dugi i Voprosy Ee Ustoichivosti, Moscow, 1961, 320p].

Molecular Physics and Spectroscopy

Drinberg, A. Ya., Demchenko, N. S., Setkina O. N., and Gopshtein, N. M.
TRANSFORMATION OF SATURATED CARBON-CHAIN POLYMERS. IV. SPECTROSCOPIC INVESTIGATIONS IN THE INFRA-RED REGION OF POLYETHYLENE AND OF ITS TRIDIMENSIONAL TRANSFORMATION PRODUCTS 5p 6refs.
Order from SLA $1.10 TT-64-18083

Trans. of Zhurn[al] Prikl[adnoi] Khimii (USSR) 1957, v. 30 [no. 1] p. 120-124.
Another trans. is available from ATS as ATS-11J16R (5) p.

Kozyrev, B. P. and Mezenov, A. V.
TRANSPARENCY OF GASES IN THE INFRARED PART OF THE SPECTRUM FOR SMALL DISTANCES.
13 May 64 [9p] 13refs FTD-MT-64-41; AD-602 896.
Order from OTS HC$1.00, MF$0.50 TT-64-71137

Edited machine trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Fizika (USSR) 1963, no. 3, p. 18-22.

Lebedev, Ya. S. [Chernikov, D. M., and Tikhomirova, N. N.].
ATLAS OF ELECTRON SPIN RESONANCE SPECTRA: THEORETICALLY CALCULATED MULTICOMPONENT SYMMETRICAL SPECTRA. 1963, 229p.
Order from CB $15.00

Trans. of mono. [Atlas Spektrov Elektronnogo Paramagnitnogo Rezonansa: Teoreticheski Rasschitannye Mnogokomponentnye Simmetricheskie Spektry, Moscow, 1962, 228p].

Leupold, D.
THE TREATMENT OF THE POLYMETHIN CHAIN ACCORDING TO THE LCAO-MO METHOD. 8p 15refs.
Order from SLA $1.10 TT-64-18527

Trans. of Zeitschrift für Physikalische Chemie [Leipzig] (East Germany) 1963, v. 223, no. 5/6, p. 405-411.

Sidorov, A. N.
INFRARED ABSORPTION SPECTRA OF GASEOUS ORGANIC COMPOUNDS ADSORBED ON MICROPOROUS GLASS. 5p 7refs.
Order from SLA $1.10 TT-64-18094

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1954, v. 95 [no. 6] p. 1235-1238.
Other trans. are available from SLA as RT-2487 (6)p. and from OTS $1.00 as TT-60-21424 (6)p.

Syrkin, Ya. K. and Dyatkina, M. E.
STRUCTURE OF MOLECULES AND THE CHEMICAL BOND. 1964, 509p.
Order from Dover Publications, Inc., 180 Varick St., New York, N. Y. $2.75

Trans. of unidentified Russian mono., n.p., n.d.

Optics

Ewald, J. W.
CONCERNING CRYSTALS WITH TWO OPTICAL AXES I. OPTICAL AXES (De Crystallis Duorum Axium Opticorum).
Order from SLA $1.10 TT-64-16956

Partial trans. (p. 3-6) of Doctoral dissertation, University of Berlin, 1837.

Favre, Henry and Gilg, Bernhard.
A PURELY OPTICAL METHOD FOR THE DIRECT MEASUREMENT OF MOMENTS IN THIN BENT PLATES. 28 Jul 64 [29p] RSIC-237; AD-604 329.
Order from OTS HC $2.00 MF $0.50 TT-64-71232

Trans. of Schweizerische Bauzeitung, 1950, v. 68, no. 19, p. 253-257; no. 20, p. 265-267.

Schardin, H.
THEORY AND APPLICATION OF THE MACH-ZEHNDER INTERFERENCE REFRACTOMETER. PART I. GENERAL INTRODUCTION AND SURVEY WITH REGARD TO THE FIELDS OF APPLICATION. PT. II. THEORY OF THE INTERFERENCE-FRINGE FIELD. 39p.
Order from SLA $3.60 TT-64-18174

Trans. of unidentified report from the Berlin Technical University, Institute for Technical Physics, n.d.

Tardy, H.-L.
A PRACTICAL METHOD FOR INVESTIGATING AND MEASURING THE BIREFRINGENCE OF OPTICAL GLASS. 28 Jul 64 [15p] RSIC-236; AD-604 330.
Order from OTS HC $1.00 MF $0.50 TT-64-71233

Trans. of Revue d'Optique [Theorique et Instrumentale] (France) 1929, v. 8, p. 59-69.

Vincent-Geisse, Josette and Lecomte, Jean.
INTERFEROMETRIC METHOD FOR THE MEASURE OF LIQUIDS DISPERSION IN THE INFRARED. 3p 5refs.
Order from SLA $1.10 TT-64-18502

Trans. of [Academie des Sciences, Paris]. Comptes Rend[us] (France) 1957, v. 244 [no. 5] p. 577-580 (pub. by Gauthier-Villars et Cie., Paris).

Vincent-Geisse, Josette and Lecomte, Jean.
SOME ABNORMALITIES IN THE INFRARED SPECTRUM PRODUCED BY INTERFERENCE FRINGES IN SEMI-REFLECTING LAYERS. 3p.
Order from SLA $1.10 TT-64-18501

Trans. of [Academie des Sciences, Paris]. Comptes R[endus] (France) 1957, v. 244 [no. 16] p. 2152-2155 (pub. by Gauthier-Villars et Cie., Paris).

Solid State Physics

Badaeva, T. A. and Rybakova, L. I.
THE STRUCTURE OF BINARY ALLOYS OF ZIRCONIUM WITH BISMUTH AND LEAD IN THE SOLID STATE. 6p 2refs.
Order from OTS or ETC HC $1.00 AEC-tr-6367

Trans. of mono. [Stroenie i Svoistva Splavov Urana, Toriya i Tsirkoniya] (The Structure and the Properties of Uranium, Thorium and Zirconium Alloys) Moscow, 1963, p. 303-308 (ed. by O. S. Ivanov).

Bergmann, Günter.
THE INVESTIGATION OF THE DOPING PROPERTIES OF THE GERMANIUM AND LEAD IN BISMUT-TELLURID Bi2-Te3. [33p] 21refs.
Available on loan from SLA TT-64-18792

Trans. of Z[eitschrift für] Naturforschung (West Germany) 1963, v. 18a [no. 11] p. 1169-1181.

Dykman, I. M.
POLARIZING EXCITONS IN THE KCl TYPE CRYSTALS. 16p 12refs.
Order from SLA, $1.60 TT-64-16621

Trans. of Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki (USSR) 1954, v. 26, no. 3, p. 307-316. Another trans. is available from OTS, OR ETC $1.00 as TT-62-11075, NRL-Trans-868, 16p.

Eckart, F. and Henrion, W.
ETCHING STUDIES OF HEXAGONAL SINGLE CRYSTALS OF SELENIUM. 4p (6 figs omitted) 8refs.
Order from SLA $1.10 TT-64-16110

Trans. of Phys[ica] Stat[us] Sol[idi] (Germany) 1963, v. 3, no. 7, p. 1247-1251.

Franz, W.
DIELECTRIC BREAKDOWN. CHAP. B. THERMAL BREAKDOWN. 26p (14 figs all formulae omitted).
Order from SLA $2.60 TT-64-18119

Trans. of excerpt from Handbuch der Physik (West Germany) 1956, v. 17, Dielektrika, p. 166-182.

Harten, H. U.
THE SEMICONDUCTOR-ELECTROLYTE INTERFACE. [88 p] 123refs.
Order from SLA $8.10 TT-64-16575

Trans. of manuscript to be pub. in Festkörperprobleme (West Germany) 1964, v. 3.

Heywang, W.
THE COMPLEX RESISTIVITY OF $BaTiO_3$ "COLD CONDUCTORS" AS CONFIRMATION OF THE BARRIER-LAYER MODEL. 19p (7 refs omitted).
Order from SLA $1.60 TT-64-16837

Trans. of Z[eitschrift] f[ür] Angew[andte] Physik (West Germany) 1963, v. 16, no. 1, p. 1-5.

Hilsch, R. and Pohl, R. W.
QUANTITATIVE TREATMENT OF STATIONARY LIGHT ELECTRIC PRIMARY AND SECONDARY CURRENTS IN CRYSTALS, AS DEMONSTRATED ON THE KH-KBr MIX CRYSTAL WHICH IS USED AS A HALF CONDUCTOR MODEL. 48p (15 figs 13 refs omitted).
Order from SLA $4.60 TT-64-16993

Trans. of Z[eitschrift für] Physik (Germany) 1938, v. 108, p. 55-84.

Josephy, B.
THE REFLECTION OF MERCURY MOLECULAR BEAMS ON CLEAVAGE PLANES OF CRYSTALS. [13p] 5refs.
Order from SLA $1.60 TT-64-16394

Trans. of Zeitschrift für Physik (Germany) 1933, v. 80, no. 11/12 [p. 755-762].
Another trans. is available from SLA as AEC-tr-2431, SLA-11-738 (10p)

Knacke, O. and Stranski, I. N.
CRYSTAL CHARGE AND ADSORPTION. [Paper presented at] the 55th Meeting of the German Bunsen Society for Physical Chemistry, Freiburg, 12 May 56. 8p (14 figs 2 tables omitted) 10refs.
Order from SLA $1.10 TT-64-16809

Trans. of Zeitschrift für Elektrochemie (West Germany) 1956, v. 60 [no. 8] p. 816-822.

Koch, H.
ELECTRICAL INVESTIGATIONS OF "UNDOPED" TIN OXIDE FILMS OF HIGH ELECTRON CONCENTRATION IN THE TEMPERATURE RANGE BETWEEN 90^{0} K TO APPROXIMATELY 290^{0}K. 24p 41refs.
Order from SLA $2.60 TT-64-16927

Trans. of Phys[ica] Stat[us] Sol[idi] (Germany) 1963, v. 3 [no. 6] p. 1059-1071.

Koch, H.
ON THE OPTICAL PROPERTIES OF SEMI-CONDUCTIVE TIN DIOXIDE FILMS IN THE NEAR INFRARED REGION AT ROOM TEMPERATURE. 23p 11refs.
Order from SLA $2.60 TT-64-16946

Trans. of Phys[ica] Stat[us] Sol[idi] (Germany) 1963, v. 3 [no. 9] p. 1619-1628.

Ludke, W. and others.
PROCESS FOR THE PRODUCTION OF FLUORSPAR SINGLE CRYSTALS. Jul 64.
Order from TTIS $5.40 TTIS NS 229

Trans. of East German patent 26,361, appl. 27 Feb 60, pub. 29 Oct 63.

Ming, Nai-pen, Fan, Ts'un-yi, Li, Ch'i, Hsu, Yu-shan, and Feng, Tuan.
PREPARATION OF MOLYBDENUM SINGLE CRYSTALS BY ELECTRON-BEAM FLOATING-ZONE MELTING. 10 Jul 64 [12p] 13refs FTD-TT-64-350; AD-602 629.
Order from OTS HC $1.00, MF $0.50 TT-64-11977

Edited trans. of [Wu] Li Hsüeh Pao (Chinese People's Republic) 1963, v. 19, no. 3, p. 160-164.

Moinov, S. G. and Reznichenko, V. A.
TITANIUM DIOXIDE CRUSTALLIZATION UPON INTERACTION OF TITANIUM TETRACHLORIDE WITH OXYGEN. 12p 7refs.
Order from SLA $1.60 TT-64-18549

Trans. of Titan i Ego Splavi, 1963, v. 9, p. 166-171.

Pospelov, V. A. and Zhdanov, G. S.
CRYSTALLINE STRUCTURE OF $K_4Me(CN)_6 \cdot 3H_2O$ (Me Fe, Ru) $_2$ (Kristallicheskaya Struktura $K_4Me(CN)_6 \cdot 3H_2O$ (Me Fe, Ru) Lydia Venters, tr. Jul 63 [3p] 3refs.
Order from OTS or ETC HC $1.00 AEC-tr-5918

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1947, v. 21, no. 7, p. 879-880.

Sazhin, B. I. and Podosenova, N. G.
INVESTIGATIONS OF THE ELECTROCONDUCTIVITY OF POLYMERS. VIII. THE EFFECT OF CRYSTALIZATION. 9p (3 figs 2 tables omitted) 10refs.
Order from SLA $1.10 TT-64-18124

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1964, v. 6, no. 1, p. 137-143.

Shubnikov, Aleksei Vasil'evich and Belov, N[ikolai] V[asil'evich].
COLORED SYMMETRY
J. Itzkoff and J. Gollob, trs. 1964, 263p.
Order from MACM $9.75

Trans. of unidentified Russian mono., n.p., n.d.

Suchet, J. P., Rodot, H., Leroux-Hugon, P., and Rodot, M.
REMARKS ON THE PROPAGATION OF ELECTRONS AND PHONONS: APPLICATION TO THE INVESTIGATION OF THERMOELECTRIC MATERIALS. 26p (18 figs 3 tables omitted) 56refs.
Order from SLA $2.60 TT-64-18127

Trans. of Advanced Energy Conversion (England) 1963, v. 3, p. 569-590.
Another trans. is available from SLA $2.60 as TT-64-16193 (26)p.

Thermodynamics

Anirkhanov, Kh. I.
THE THERMAL CONDUCTIVITY OF WATER VAPOUR UNDER NEAR-CRITICAL AND SUPER-CRITICAL CONDITIONS (Teploprovodnost' Vodyanogo Para v Okolokriticheskom i Sverkhkriticheskom Sostoyaniyakh).
Jul 64 [10p] 16refs RTS 2512.
Order from OTS or ETC HC $1.00, MF $0.50 TT-64-19388

Trans. of Teploenergetika (USSR) 1963 [v. 10] no. 10, p. 69-72.

A portion of this document is illegible or non-reproducible. It is sold with the understanding that it is the best available copy.

Ivashkevich, A. A.
HEAT TRANSFER COEFFICIENT IN THE REGION OF TRANSITION FROM CONVECTION TO BOILING DURING THE FORCED MOVEMENT OF LIQUID IN CHANNELS. 1963 [8p] 10refs FT-6092.
Order from OTS or ETC HC $1.00 AEC-tr-6414

Trans. of Teploenergetika (USSR) 1963, v. 10, no. 10, p. 76-78.

Kazin, I. V.
INVESTIGATION OF TRUE STEAM CONTENT IN A CIRCUIT WITH NATURAL CIRCULATION OF WATER 1964 [9p] 6refs FT-6090.
Order from OTS or ETC HC $1.00 AEC-tr-6402

Trans. of Teploenergetika (USSR) 1963, v. 10, no. 6, p. 25-29.

Kim, G. V., Abdeev, M. A., and Ponomarev, B. D.
ZINC AND CADMIUM VAPOR PRESSURES OVER THEIR ALLOYS. [13p] (figs omitted) 9refs.
Order from OTS, or ETC HC $1.00, MF $0.50 TT-64-19356

Trans. of Akademiya Nauk Kazakhskoi SSR, Alma-Ata. Altaiskii Gornometallurgicheskii Nauchno-Issledovatel'skii Institut. Trudy, 1961, v. 11, p. 48-55.

Ornatskii, A. P.
CRITICAL HEAT LOADS AND HEAT TRANSFER FOR A FORCED FLOW OF WATER IN TUBES IN THE REGION OF SUPERHIGH PRESSURES (175-220 ATM). 1963 [9p] 7refs FT-6087.
Order from OTS or ETC HC $1.00 AEC-tr-6401

Trans. of Teploenergetika (USSR) 1963, v. 10, no. 3, p. 66-69.

Ornatskii, A. P. and Kichigin, A. M.
CRITICAL HEAT LOADS IN HIGH-PRESSURE BOILING OF UNDERHEATED WATER IN SMALL DIAMETER TUBES
A. L. Monks, tr. May 64 [8p] 8refs.
Order from OTS HC $1.00 ORNL-tr-107

Trans. of Teploenergetika (USSR) 1962, v. 9, no. 6, p. 44-47.

Popov, K. A.
FUNDAMENTAL FORMULA IN THE THEORY OF FC IRREVERSIBLE THERMODYNAMIC PROCESSES. 7p 14refs.
Order from SLA $1.10 TT-64-18605

Trans. of Akademiya Nauk SSSR. Doklady, 1956, v. 10 no. 3, p. 422-424.

Povarnin, P. I.
CRITICAL BOILING POINT IN THE FLOW OF 96% ETHYL ALCOHOL UNDER LOW HEATING CONDITIONS
A. L. Monks, tr. 16 Jun 64 [8p] 8refs.
Order from OTS HC $1.00 ORNL-tr-108

Trans. of Teploenergetika (USSR) 1962, v. 9, no. 12, p. 57-63.

Rybin, R. A.
AN INVESTIGATION OF THE EFFECT OF TUBE DIAMETER ON THE CRITICAL HEAT LOAD DURING THE BOILING OF WATER. 1963 [9p] 12refs FT-6014.
Order from OTS or ETC HC $1.00 AEC-tr-6403

Trans. of #Inzh[enerno]-Fiz[icheskii] Zhurnal (USSR) 1963, v. 6, no. 2, p. 15-19.
Another trans. is available from OTS $4.00 in TT-63-31047, JPRS-19701, 17 Jun 63, 258p.

RESEARCH METHODS, TECHNIQUES AND EQUIPMENT

COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY: [SELECTED] TRANSLATIONS NO. 81. 28 Apr 64, 24p 31refs JPRS: 24372.
Order from OTS HC $0.75 MF $0.50 TT-64-31167

Trans. of K'o Hsüeh T'ung Pao (Chinese People's Republic) 1964, no. 1, p. 52-56, 71-73, 76-77.

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY: [SELECTED] TRANSLATIONS NO. 89. 10 Jun 64, 30p JPRS: 25016.
Order from OTS HC $1.00 MF $0.50 TT-64-31451

Consists of 4 selected articles from Mar-May 64 issues of 2 Chinese journals and newspapers.

Separate entries have been prepared for the individual articles.

COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY: [SELECTED] TRANSLATIONS NO. 91. 15 Jun 64, 34p 11refs JPRS: 25070.
Order from OTS HC $1.00 MF $0.50 TT-64-31475

Trans. of 5 selected articles from Feb and Apr 64 issues of a Chinese Journal and newspaper.

Separate enteries have been prepared for 3 articles.

COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY [SELECTED] TRANSLATIONS NO. 92. 22 Jun 64, 47p 15refs JPRS: 25191.
Order from OTS HC $1.25 MF $0.50 TT-64-31535

Trans. of 8 selected articles from Mar, May 64 issues of various Chinese journals and newspapers.

Separate entries have been prepared for two articles.

COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY: [SELECTED] TRANSLATIONS NO. 93. 26 Jun 64, 13p JPRS: 25263.
Order from OTS HC $0.50 MF $0.50 TT-64-31563

Trans. of 4 selected articles from 17 Dec 63 and 29 May 64 issues of 2 Chinese newspapers, Jen Min Jih Pao and Chieh Fang Jih Pao.

COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY: [SELECTED] TRANSLATIONS NO. 102. 10 Aug 64, 75p 4refs JPRS: 25819.
Order from OTS HC $3.00 MF $0.75 TT-64-41090

Trans. of 24 selected articles (some excerpts) from Mar, May-Jul 64 issues of various Chinese journals.

Separate entries have been prepared for 4 articles.

COMMUNIST CHINESE SCIENTIFIC ABSTRACTS NO. 54. 4 Jun 64, 3p JPRS: 24934.
Order from OTS HC $0.50 MF $0.50 TT-64-31407

Trans. of selected abstracts from Referativnyi Zhurnal. Kotlostroenie (USSR) 1964, no. 2; Referativnyi Zhurnal. Tekhnologiya Mashinostroeniya (USSR) 1964, no. 2; Referativnyi Zhurnal. Turbostroenie (USSR) 1964, no. 1.

COMMUNIST CHINESE SCIENTIFIC ABSTRACTS NO. 58. 23 Jul 64, 25p JPRS: 25554.
Order from OTS HC $0.75 MF $0.50 TT-64-31826

Trans. of selected abstracts from Referativnyi Zhurnal. Biol[ogiya] (USSR) 1963, no. 19; Referativnyi Zhurnal. [Otdel'nyi Vypusk 57]: Pochvoved[enie] (USSR) 1963, no. 23; Referativnyi Zhurnal. [Otdel'nyi Vypusk 55]: Rastenievod[stvo] (USSR) 1964, no. 2; Referativnyi Zhurnal. Khim[iya] (USSR) 1964, no. 1; no. 2; Referativnyi Zhurnal. Metal[lurgiya] (USSR) 1964, no. 1; no. 2; Referativnyi Zhurnal. Fiz[ika] (USSR) 1963, no. 12.

COMMUNIST CHINESE SCIENTIFIC ABSTRACTS NO. 59. 24 Jul 64, 18p JPRS: 25573.
Order from OTS HC $0.50 MF $0.50 TT-64-31845

Trans. of selected abstracts from Referativnyi Zhurnal. Mat[ematika] (USSR) 1963, no. 10; no. 12; 1964, no. 3; Referativnyi Zhurnal. Geogr[afiya] (USSR) 1964, no. 3.

COMMUNIST CHINESE SCIENTIFIC ABSTRACTS NO. 60. 27 Jul 64, 8p JPRS: 25602.
Order from OTS HC $1.00 MF $0.50 TT-64-31874

Trans. of selected abstracts from Referativnyi Zhurnal. [Geografiya] (USSR) 1964, no. 4; Referativnyi Zhurnal. [Geofizika] (USSR) 1963, no. 10.

COMMUNIST CHINESE SCIENTIFIC ABSTRACTS NO. 61. 6 Aug 64, 9p JPRS: 25769.
Order from OTS HC $1.00 MF $0.50 TT-64-41040

Trans. of selected abstracts from Referativnyi Zhurnal. Geof[izika] (USSR) 1963, no. 12; Referativnyi Zhurnal. Geol[ogiya] (USSR) 1964, no. 4.

COMMUNIST CHINESE SCIENTIFIC ABSTRACTS NO. 62. 12 Aug 64, 7p JPRS: 25864.
Order from OTS HC $1.00, MF $0.50 TT-64-41135

Trans. of selected abstracts from Referativnyi Zhurnal. Elektronika [i Ee Primenenie] (USSR) 1964, no. 1; Referativnyi Zhurnal. El[ektrotekhnika] i Energetika (USSR) 1964, nos. 1-2; Referativnyi Zhurnal. Radiotekhnika i Elektrosvyaz' (USSR) 1964, no. 2.

Aleksenko, G. V.
NEW ACHIEVEMENTS IN SOVIET SCIENCE: CONVERSATION BETWEEN A TASS CORRESPONDENT AND A MEMBER OF THE COMMITTEE ON LENIN PRIZES IN SCIENCE AND TECHNOLOGY. 21 Jul 64, 4p JPRS: 25525.
Order from OTS HC $0.50 MF $0.50 TT-64-31797

Trans. from Turkmenskaya Iskra (USSR) 1962, 24 Apr, p. 2

Astashenkov, Petr Timofeevich.
WHAT IS BIONICS? 17 Jul 64, 77p 16refs JPRS: 25494.
Order from OTS HC $2.00 MF $0.75 TT-64-31766

Trans. of mono. Chto Takoe Bionika, Moscow, 1963, 88p.

Bazhenov, L. B., reviewer.
PHILOSOPHICAL ANALYSIS OF A NEW SCIENCE: REVIEW OF MONO. CYBERNETICS; PHILOSOPHICAL AND SOCIOLOGICAL PROBLEMS. 6 Aug 64, 3p JPRS: 25751.
Order from OTS HC $1.00 MF $0.50 TT-64-41022

Trans. of Priroda (USSR) 1964 [v. 53] no. 1, p. 121-122 (review of mono. Kibernetika. Filosofskie i Sotsiologicheskie Problemy, Gostolitizdat, 1963, 207p).

[Blokh, E. L.].
NOISE IMMUNITY OF COMMUNICATIONS SYSTEMS WITH ERROR CORRECTING FEEDBACK (Pomekhoustoichivost' Sistem Svyazi s Peresprosom). 11 Aug 64, 213p 63refs JPRS: 25853.
Order from OTS HC $6.00, MF $1.25 TT-64-41124

Trans. of Problemy Peredachi Informatsii (USSR) [1963] no. 13, p. 1-172.

Ch'ien, Hsüeh-sen and Chang, Fu-fang.
INTRODUCTION TO SPACE TRAVEL [AND] THIN ELASTIC PLATES: BOOK REVIEWS. 2 Jun 64 [6p] FTD-TT-64-250; AD-442 483.
Order from OTS HC $1.00, MF $0.50 TT-64-71194

Edited trans. of Li Hsüeh Hsüeh Pao (Chinese People's Republic) 1963, v. 6, no. 3, back cover.

Kirillin, V. and Millionshchikov, M.
SOME TRENDS AND ACHIEVEMENTS OF SOVIET SCIENCE: GREAT STRIDES IN SCIENCE [AND] PHYSICS, APR 64. 10 Aug 64, 9p JPRS: 25814.
Order from OTS HC $1.00 MF $0.50 TT-64-41085

Trans. from Pravda, Moscow (USSR) 1964, 1 May, p. 3; ##Izvestiya (USSR) 1964, 1 May, p. 5.
##Another trans. is available from OTS $0.50 as TT-64-31400, JPRS-24918, 3 Jun 64, 5p.

Kulikovskii, L.
POORLY PLANNED SCIENTIFIC INSTITUTES IN THE VOLGA REGION. 21 Jul 64, 5p JPRS: 25523.
Order from OTS HC $0.50 MF $0.50 TT-64-31795

Trans. from Izvestiya (USSR) 1964, 29 May, p. 3.

Kuo, Shang-p'ing, Liu, Tz'u-ch'un, Li, Yung-shan, Yang, Hsu-ch'iang, and Sun, Min-yung.
STUDY OF MULTIPLE PHASE VADOSE: SCIENTIFIC DATA AND SPECIMENS BROUGHT BACK FROM FIELD STUDY IN GASHERBRUM MOUNTAIN REGION: NEW ACHIEVEMENTS IN SCIENTIFIC RESEARCH AT NANKING UNIVERSITY. Communist China's Science and Technology: Selected Translations no. 99. 23 Jul 64, 15p JPRS: 25562.
Order from OTS HC $0.50 MF $0.50 TT-64-31834

Trans. of K'o Hsüeh T'ung Pao (Chinese People's Republic) 1964, no. 5, p. 420-425; from Kuang Ming Jih Pao (Chinese People's Republic) 1964, 13 Jun, p. 1; 25 Jun, p. 1.

Pokrovskii, G. I.
THE ROLE OF SCIENCE AND TECHNOLOGY IN MODERN WAR
Herbert S. Dinerstein, tr. 5 Feb 58 [40p] T-79; AD-604 787.
Order from OTS HC $2.00 MF $0.75 TT-64-71281

Trans. of Vsesoyuznoe Obshchestvo po Rasprostraneniyu Politicheskikh i Nauchnykh Znanii. Seriya 4 (USSR) 1957, no. 29.
Also available from SLA as R-3412, 39p.

Udachin, A.
PUBLIC COUNCILS (SOVIETS) ON SCIENCE. 9 Jul 64, 5p JPRS: 25410.
Order from OTS HC $0.50 MF $0.50 TT-64-31683

Trans. from Pravda, Moscow (USSR) 1964, 8 May, p. 2.

Wu, Chung-wei.
THE PROCEDURE PROBLEM IN SCIENTIFIC RESEARCH WORK. 2 Jul 64, 14p JPRS: 25337 (p. 31-44).
Order from OTS HC $1.25 MF $0.50 in TT-64-31610 (p. 31-44)

Trans. from Kuang Ming Jih Pao (Chinese People's Republic) 1964, 4 Jun, p. 2; 5 Jun, p. 2.

Yakubaitis, E. A.
CYBERNETICS AND THE DEVELOPMENT OF SCIENCES. 4 Aug 64, 5p JPRS: 25714.
Order from OTS HC $1.00 MF $0.50 TT-64-31986

Trans. of Akademiya Nauk Latviiskoi SSR, Riga. Izvestiya, 1963, no. 12[197] p. 24-26.

Photographic Equipment

Fonar', I.
NEW STANDARD [For 35-mm and 70-mm film motion picture projectors, GOST 2639-62.
Order from SLA $1.60 TT-64-18537

Trans. of Kinomekhanik (USSR) 1963, no. 11, p. 22-25.

Il'in, V. B. and Derviz, V. D.
AFA-TEU AIRCRAFT CAMERA AND ITS TESTS. 10 Jun 64 [24p] FTD-MT-63-353; AD-602 350.
Order from OTS HC$1.00, MF$0.50 TT-64-11876

Edited machine trans. of Tsentral'nyi Nauchno-Issledovatel'skii Institut Geodezii, Aeros"emki i Kartografii. Trudy (USSR) 1962, v. 146, p. 3-15.

SOCIAL SCIENCES

AFRICA: TRANSLATIONS NO. 64. 2 Jul 64, 140p JPRS: 25335.
Order from OTS HC $2.75 MF $1.00 TT-64-31608

Consists of 18 articles from various foreign-language sources.

AFRICA: TRANSLATIONS NO. 67. 9 Jul 64, 137p JPRS: 25415.
Order from OTS HC $2.75 MF $1.00 TT-64-31688

Consists of 11 articles from various foreign-language sources.

BRING THE THEORY OF SCIENTIFIC ATHEISM UP TO THE LEVEL OF CURRENT REQUIREMENTS. 8 Jul 64, 15p JPRS: 25393.
Order from OTS HC $0.50 MF $0.50 TT-64-31666

Trans. of Voprosy Filosofii (USSR) 1964 [v. 18] no. 5, p. 3-12.

CHATS ON THE ATOMIC WEAPON
F. J. Krieger, tr. [1954] [4p] T-36; AD-604 784.
Order from OTS HC $1.00, MF $0.50 TT-64-71278

Trans. from Krasnaya Zvezda (USSR) 1954, 3 Jul, p. 2. Other translations are available from SLA as R-3566, 4p. and R-00727, 4p.

CZECHOSLOVAK PROVINCIAL PRESS: SUMMARY NO. 267 (9-15 MAY 64). 8 Jul 64, 19p JPRS: 25394.
Order from OTS HC $0.50 MF $0.50 TT-64-31667

Consists of full, partial, condensed translations or summaries based on all available Czechoslovakian newspapers pub. 9-15 May 64 on the government, Communist Party, economic information, and sociological items.

EAST EUROPEAN LEGAL JOURNALS: ABSTRACTS NO. 216 (EAST GERMANY). 8 Jul 64, 4p JPRS: 25396.
Order from OTS HC $0.50 MF $0.50 TT-64-31669

Contains selected abstracts from Gezetzblatt der Deutschen Demokratischen Republik (East Germany) 1964, pt. I, nos. 2-6.

EAST EUROPEAN LEGAL JOURNALS: ABSTRACTS NO. 217 (CZECHOSLOVAKIA, HUNGARY, AND RUMANIA). 9 Jul 64, 20p JPRS: 25413.
Order from OTS HC $0.75 MF $0.50 TT-64-31686

Trans. of abstracts of selected laws pub. in Mar-Jun 64 issues of various East European legal journals.

EAST EUROPEAN SERVICE INDUSTRIES: TRANSLATIONS NO. 277. 2 Jul 64, 45p JPRS: 25334.
Order from OTS HC $1.25 MF $0.50 TT-64-31607

Consists of 4 articles from Mar-May 64 issues of Bulgarian, Polish, and Rumanian journals.

EAST EUROPEAN SERVICE INDUSTRIES: TRANSLATIONS NO. 278. 7 Jul 64, 37p JPRS: 25374.
Order from OTS HC $1.00 MF $0.50 TT-64-31647

Trans. of 4 selected articles from Apr-Jun 64 issues of various Bulgarian, Hungarian, and Polish journals.

ECONOMIC ORGANIZATION AND MANAGEMENT IN EASTERN EUROPE: [SELECTED] TRANSLATIONS NO. 349. 9 Jul 64, 36p JPRS: 25416.
Order from OTS HC $1.00 MF $0.50 TT-64-31689

Trans. of 5 selected articles from Mar-Apr 64 issues of various Bulgarian and Rumanian newspapers.

HUNGARIAN PROVINCIAL PRESS: SUMMARY NO. 318 (7-12 APR 64). 8 Jul 64, 15p JPRS: 25390.
Order from OTS HC $0.50 MF $0.50 TT-64-31663

Consists of full, partial, condensed translations, or summaries based on all available Hungarian newspapers pub. 7-12 Apr 64 on the government, Communist Party, economic information, and sociological items.

INTERNATIONAL COMMUNIST DEVELOPMENTS: TRANSLATIONS NO. 619. 6 Jul 64, 158p JPRS: 25355.
Order from OTS HC $3.00 MF $0.75 TT-64-31628

Consists of 32 articles from May-Jun 64 issues of various international journals and newspapers.

IN THE SPIRIT OF GOOD NEIGHBORLINESS AND IN THE INTERESTS OF PEOPLE. Translation of the Pravda Editorial no. 286. 9 Jul 64, 4p JPRS: 25418.
Order from OTS HC $0.50 MF $0.50 TT-64-31691

Trans. from Pravda, Moscow (USSR) 1964 [no. 187] 5 Jul, p. 1.

LAW ON NARCOTIC DRUGS. 9 Jul 64, 12p JPRS: 25401.
Order from OTS HC $0.50 MF $0.50 TT-64-31674

Trans. of Sluzbeni List, Belgrade (Yugoslavia) 1964 [v. 20, no. 18] p. 349-354.

MONGOLIA: TRANSLATIONS NO. 50 1 Jul 64, 30p JPRS: 25321.
Order from OTS HC $1.00 MF $0.50 TT-64-31594

Trans. of 9 selected articles from Mar-Apr 64 issues of various Mongolian journals and newspapers.

POLITICAL AND SOCIOLOGICAL INFORMATION ON COMMUNIST CHINA: TRANSLATIONS NO. 173. 1 Jul 64, 55p. JPRS: 25323.
Order from OTS HC $1.50 MF $0.75 TT-64-31596

Contains summaries or translations of 13 selected articles from May-Jun 64 issues of various Communist Chinese newspapers.

POLITICAL AND SOCIOLOGICAL INFORMATION ON NORTH KOREA: TRANSLATIONS NO. 58. 1 Jul 64, 97p JPRS: 25319.
Order from OTS HC $2.25 MF $0.75 TT-64-31592

Contains summaries of translations of 11 selected articles from Mar-May 64 issues of various North Korean journals and newspapers.

PRESS REPORTS ON FRENCH NUCLEAR POLICY AND INSTALLATION. 20 Aug 64, 29p JPRS: 26022.
Order from OTS HC $2.00, MF $0.50 TT-64-41292

Consists of 6 articles from Jun-Jul 64 issues of various French newspapers.

RUMANIAN PROVINCIAL PRESS: SUMMARY NO. 269 (30 MAY-6 JUN 64). 7 Jul 64, 17p JPRS: 25370.
Order from OTS HC $0.50 MF $0.50 TT-64-31643

Consists of full, partial, condensed translations or summaries based on all available Rumanian newspapers pub. (30 May-Jun 64) on political and economic subjects.

RUSSIAN TACTICS
J. F. O'Sullivan, tr. 24 Jul 53 [24p] T-28; AD-604 775
Order from OTS HC $1.00 MF $0.50 TT-64-71269

Trans. of a German translation by the German Intelligence Section, Foreign Armies East of the German General Staff from the minutes of the Russian Theoretical Conference on Tactics of Kuks "Wystrel" 1942.

SOVIET ECONOMIC SYSTEM: CURRENT DEVELOPMENTS NO. 40. 10 Jul 64, 11p JPRS: 25425.
Order from OTS HC $0.50 MF $0.50 TT-64-31698

Contains primarily excerpts of articles on current developments in the Soviet economy: urban development, consumer goods, international economic relations, and a review of other articles pub. in various Russian journals and newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET REGIONAL ECONOMY NO. 117. 15 Jul 64, 12p JPRS: 25483.
Order from OTS HC $0.50 MF $0.50 TT-64-31755

Trans. of 4 selected articles from Mar-May 64 issues of 3 Russian newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET REGIONAL ECONOMY NO. 118. 27 Jul 64, 33p JPRS: 25595.
Order from OTS HC $2.00 MF $0.50 TT-64-31867

Trans. of 9 selected articles from Apr-Jun 64 issues of various Russian newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET REGIONAL ECONOMY NO. 119. 31 Jul 64, 26p JPRS: 25675.
Order from OTS HC $2.00 MF $0.50 TT-64-31947

Trans. of 7 selected articles from May-Jun 64 issues of Russian journals and newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET REGIONAL ECONOMY NO. 122. 20 Aug 64, 31p JPRS: 26005.
Order from OTS HC $2.00 MF $0.50 TT-64-41275

Consists of 5 articles from May-Jul 64 issues of Russian newspapers and journals.

Adfel'dt, N.
ALL-UNION REVIEW TO STIMULATE IMPROVED PLANT MANAGEMENT USSR Industrial Development: General Information on Soviet Machinery Industries no. 24. 29 Jul 64, 4p JPRS: 25632.
Order from OTS HC $1.00 MF $0.50 TT-64-31904

Trans. from Pravda Vostoka (USSR) 1964, 20 May, p.3.

Berg, I. A.
GENERAL MEETING OF THE ACADEMY OF SCIENCES OF THE USSR ON 19-20 OCT 62: DISCUSSION OF THE REPORT OF L. F. IL'ICHEV. 22 Jul 64 [5p] FTD-TT-64-402; AD-603 330.
Order from OTS HC $1.00, MF $0.50 TT-64-71159

Unedited rough draft trans. of A[kademiya] N[auk] SSSR. Vestnik, 1962 [v. 32] no. 12, p. 20-21.

Dracheva, N. P. and Popov, N. N.
THE GERMAN DEMOCRATIC REPUBLIC IN THE SYSTEM OF INTERNATIONAL SOCIALIST DIVISION OF LABOR, CHAPS. 1-2 (SELECTED PARTS). 6 Aug 64, 30p JPRS: 25760.
Order from OTS HC $2.00 MF $0.50 TT-64-41031

Trans. of mono. GDR v Sisteme Mezhdunarodnogo Sotsialisticheskogo Razdeleniya Truda, Moscow, 1963, p. 40-67, 191-196, 230-237.

Kerimov, D. A. and Pokrovskii, I. F.
USE OF COMPUTERS IN THE FIELD OF LAW. 10 Aug 64, 6p JPRS: 25822.
Order from OTS HC $1.00 MF $0.50 TT-64-41093

Trans. of Leningrad U. Vestnik (USSR) 1964, v. 19, no. 5, Seriya Ekonomika, Filosofii i Prava [no. 1] p. 121-124.

Knunyants, I. and Zubkov, L.
SOVIET SCHOOLS IN SCIENCE (TRANSLATION AND COMMENTS)
F. J. Krieger and V. S. Jittlov, trs. 12 Sep 55 [18p]. T-50; AD-604 536.
Order from OTS HC $1.00, MF $0.50 TT-64-71241

Trans. from Literaturnaya Gazeta (USSR) 1955, 11 Jan, p. 1.
Another trans. is available from SLA as R-3594.

Komin, A.
MATHEMATICS IN PRICE PLANNING. The Soviet Economic System: Structure and Policy no. 136. 8 Jul 64, 12p JPRS: 25397.
Order from OTS HC $0.50 MF $0.50 TT-64-31670

Trans. of Planovoe Khozyaistvo (USSR) 1964 [v. 41] no. 6, p. 29-38.

Kondrashev, D. D.
PRICE AND VALUE IN A SOCIALIST ECONOMY. 6 Jul 64, 175p JPRS: 25346.
Order from OTS HC $3.00 MF $1.00 TT-64-31619

Trans. of mono. Tsena i Stoimost' v Sotsialisticheskom Khozyaistve, Moscow, 1963, 245p.

Lavrukhin, S. and Ryumin, S.
STATE ARBITRATION [AND] PROFIT. The Soviet Economic System: Structure and Policy no. 137. 10 Jul 64, 8p JPRS: 25432.
Order from OTS HC $0.50 MF $0.50 TT-64-31705

Trans. from Ekonomicheskaya Gazeta (USSR) 1964 no. 14[139] p. 10; no. 20[145] p. 38.

Lein, V.
INCREASING THE UTILIZATION OF INDUSTRIAL CAPACITIES IN THE BELORUSSIAN SSR [AND] SPECIALIZATION OF INDUSTRY IN THE BALTIC REPUBLICS. USSR Industrial Development: Soviet Regional Economy no. 116. 13 Jul 64, 17p JPRS: 25457.
Order from OTS HC MF $0.50 TT-64-31730

Trans. from Sovetskaya Belorussiya (USSR) 1964, 23 May, p. 2; Sovetskaya Latviya (Latvian SSR) 1964, 29 May, p. 2.

Lelichenko, M.
CAPITAL CONSTRUCTION IN THE UKRAINIAN SSR. USSR Industrial Development: Soviet Regional Economy no. 121. 7 Aug 64, 7p JPRS: 25787.
Order from OTS HC $1.00 MF $0.50 TT-64-41058

Trans. of Ekonomika Radyans'koi Ukrainy (USSR) 1964, no. 3, p. 3-8.

Mehnert, Klaus.
THE BRUSH-OFF IS CALLED "NEW LOOK"
T. I. Edwards, tr. 13 Apr 54 [6p] T-32; AD 604 774.
Order from OTS HC $1.00 MF $0.50 TT-64-71268

Trans. from Christ und Welt (West Germany) 1954, 18 Mar.
Also available from SLA as 58-766, 5p.

Rusznyak, Istvan.
DIRECTIVE OF THE PRESIDENT OF THE HUNGARIAN ACADEMY OF SCIENCES CONCERNING SCIENTIFIC QUALIFICATION AND SCIENTIFIC DEGREES. 7 Jul 64, 67p JPRS: 25376.
Order from OTS HC $1.75 MF $0.75 TT-64-31649

Trans. of [Magyar Tudomanyos Akademia]. Akademiai Kozlony (Hungary) 1964, v. 13, no. 6, p. 37-60.

Sarkisyan, S. and Minaev, E.
METHOD FOR USING A COMPUTER TO WORK OUT CONSOLIDATED LABOR NORMS. 12 Aug 64, 9p JPRS: 25883.
Order from OTS HC $1.00 MF $0.50 TT-64-41154

Trans. of Sotsialisticheskii Trud (USSR) 1964, v. 9, no. 5, p. 65-70.

Shevenko, S. M.
STATISTICAL STUDY OF A JAPANESE MATHEMATICAL TEXT. Foreign Developments in Machine Translation and Information Processing No. 158. 9 Jul 64, 49p 3refs JPRS: 25412.
Order from OTS HC $1.50 MF $0.75 TT-64-31685

Trans. of mono. Statisticheskoe Issledovanie Yaponskogo Matematicheskogo Teksta, Moscow, 1963, 54p.

Volursus.
WHEN CAN THE SOVIET UNION RISK ATOMIC WAR (Wann Kann die Sowjetunion Einen Atombonbenkrieg Wagen) Ewald Schnitzer, tr. [8p] T-29; AD-604 776.
Order from OTS HC $1.00, MF$0.50 TT-64-71270

Trans. from Flug-welt (West Germany) 1954 [v. 3] 26 Feb.
Also available from SLA as 58-769; another trans. is available from SLA as R-688, 11p.

Zeuthen, F.
UNDETERMINED WAGE PROBLEMS (Undeterminierte Lohnprobleme)
Olaf Helmer, tr. 31 Oct 52 [38p] T-25; AD-604 772.
Order from OTS HC $2.00, MF $0.50 TT-64-71266

Trans. from Archiv für Sozialwissenschaft und Sozialpolitik (Germany) 1929, v. 62.
Also available from SLA as 58-771.

Kotz, Samuel and Hoeffding, Wassily.
RUSSIAN-ENGLISH DICTIONARY OF STATISTICAL TERMS AND EXPRESSIONS AND RUSSIAN READER IN STATISTICS. University of North Carolina Monograph Series in Probability and Statistics No. 1. 1964, 115p 41refs.
Order from University of North Carolina Press, Chapel Hill $7.50

Mikhailov, A. I.
CONFERENCE OF THE INTERNATIONAL FEDERATION FOR DOCUMENTATION (NO. 29) [STOCKHOLM, 1963]. 28 Jul 64, 7p JPRS: 25604.
Order from OTS HC $1.00 MF $0.50 TT-64-31876

Trans. of Organizatsiya i Metodika NTI (USSR) 1964, no. 2, p. 3-5.

Vysotskii, A.
ORGANIZATION OF SCIENTIFIC INFORMATION ACTIVITY IN THE POLISH ACADEMY OF SCIENCES. 6 Aug 64, 10p JPRS: 25763.
Order from OTS HC $1.00 MF $0.50 TT-64-41034

Trans. of Nauchno-Tekhnicheskaya Informatsiya (USSR) 1964, no. 3, p. 52-54.

TRANSLATIONS IN PROCESS

REPORT ON THE ACTIVITIES OF THE ATOMIC ENERGY COMMISSION DURING THE PERIOD 1 APR 62-31 MAR 63.
Danish mono. (pamphlet) Beretning om Atomenergi-kommissionens Virksomhed, n.p., 1963, p. 1-83.

Aglintsev, K. K. [Kodyukov, V. M.] and others.
APPLIED DOSIMETRY.
Mono. [Prikladnaya Dosimetriya, Moscow, 1962, 247p].
To be published by ST in early 1965.

Aizerman, M. A. and others.
LOGIC, AUTOMATA AND ALGORITHMS.
Mono. [Logika, Automaty, Algoritmy, Moscow, 1963].
To be published by ST in 1965.

Akimov, Yu. K.
SCINTILLATION COUNTERS IN HIGH ENERGY PHYSICS.
Mono. [Stsintillyatsionnye Metody Registratsii Chastits Bol'shikh Energii, Moscow, 1963, 171p].
To be published by ST in 1965.

Argence, E. and Kahan, T.
THEORY OF WAVEGUIDES AND CAVITY RESONATORS.
Unidentified French mono. pub. by Dunod, n.p., n.d.
To be published by ST in 1965.

Artsimovich, L. A.
ELEMENTARY PLASMA PHYSICS.
Mono. [Elementarnaya Fizika Plazmy, Moscow, 1963, 192p].
To be published by ST in 1964.

Bang, Börje.
TECHNICAL AND ECONOMIC CONDITIONS ON BOARD-EDGING IN A SAWMILL, PT. IV.
Paper och Trä [sic] 1963, v. 45, no. 10, p. 529-531, 533-536, 540-542.

Barthoux, A., Debrie, G. and others.
THE DETECTION OF CRITICALITY ACCIDENTS OF THE COMMISSARIAT A L'ENERGIE ATOMIQUE (La Detection des Accidents de Criticite au Commissariat a l'Energie Atomique).
Mono. from the Health Physics Society, Proc. Conf., Ohio, 14-18 Jun 64.

Bochkova, O. P. and Shreider, E. Ya.
SPECTROSCOPIC ANALYSIS OF GASEOUS MIXTURES.
Mono. [Spektral'nyi Analiz Gasovykh Smesei, Moscow, 1963, 308p].
To be published by ST in 1965.

Bodner, V. A.
THEORIES OF AUTOMATIC GUIDANCE IN FLIGHT.
Russian mono. Teoriya Avtomaticheskogo Upravleniya Poletom, n.p., 1964, 698p.

Brauer, G.
HANDBOOK OF PREPARATIVE INORGANIC CHEMISTRY, VOL. II.
Unidentified German mono. pub. by Ferdinand Enke Verlag, n.p., n.d.
To be published by ST in 1965.

Burshtein, A. I.
PHYSICAL PRINCIPLES UNDERLYING DESIGN OF SEMICONDUCTOR THERMOELECTRIC DEVICES.
Mono. [Fizicheskie Osnovy Rascheta Poluprovodnikovykh Termoelektricheskikh Ustroistv, Moscow, 1962, 136p].
To be published by ST in 1964.

Carl, H.
Unidentified German mono. pub. by Berliner Union, n.p., n.d.
To be published by ST in 1965.

Dauvillier, A.
PHOTOCHEMICAL ORIGIN OF LIFE.
Unidentified French mono. pub. by Masson, n.p., n.d.
To be published by ST in 1964.

Delcroix, J.-L.
MICROSCOPIC THEORY OF IONIZED GASES (Théorie Microscopique des Gaz Ionisés).
Mono. la Théorie des Gaz Neutres et Ionisés, Paris, 1960, p. 187-249.

Erdos, P. and Suranyi, J.
NUMBER THEORY.
Unidentified Hungarian mono. pub. by Tankoyvkiado Vallalat, n.p., n.d.
To be published by ST in 1965.

Faludi, B., Frey, T. and others.
SOME CURRENT PROBLEMS IN CELL REGULATIONS.
Magyar Tudomanyos Akademia Biologiai Tudomanyok Osztalyanak Kozlemenyei (Hungary) [1964] v. 7, no. 1/2, p. 7-111.

Garsoux, J.
TOPOLOGICAL VECTOR SPACES AND DISTRIBUTIONS.
Unidentified French mono. pub. by Dunod, n.p., n.d.
To be published by ST in 1965.

Gukhman, A. A.
INTRODUCTION TO THE THEORY OF SIMILARITY.
Mono. [Vvedenie v Teoriyu Podobiya, Moscow, 1963, 254p].

Hertel, H.
FORM-STRUCTURE-MOVEMENT.
Unidentified German mono. pub. by Otto Krausskopf Verlag, n. p., n. d.
To be published by ST in 1965.

Hippel, A. V.
ELECTRICAL STRENGTH AND CRYSTAL STRUCTURE (Elektrische Festigkeit und Kristallbau).
Z[eitschrift für] Physik (Germany) 1932, v. 75, p. 145-170.

Jaeckel, G.
CONSTRUCTION OF TWO NEUTRON DETECTORS USING MODERATION FOR THE RADIATION PROTECTION MONITORING OF THE DARMSTADT LINEAR ACCELERATOR.
Thesis, Darmstadt, 1963.

Kaplan, S. A. and Pikel'ner, S. B.
THE INTERSTELLAR MEDIUM.
Mono. [Mezhsvezdnaya Sreda, Moscow, 1963, 532p].
To be published by ST in 1965.

Karol', I. L.
A COMPARATIVE ANALYSIS OF DISTRIBUTION OF OZONE AND CERTAIN RADIOACTIVE ISOTOPES.
Mono. Spavintel'nyi Analiz Nablyudaemykh Planetarnykh Raspredelenii Soderzhaniya Ozono i Nekotorykh Radioaktivnykh Izotopov v Atmosfere, Moscow, 1963 (Russian rept. G/L 905).

Kataev, I. G.
ELECTROMAGNETIC SHOCK WAVES.
Mono. [Udarnye Elektro-Magnitnye Volny, Moscow, 1963, 151p].
To be published by ST in early 1965.

Keropyan, K. K. and Chegolin, P. M.
ELECTRICAL ANALOGUES IN CIVIL ENGINEERING.
Unidentified Russian mono. pub. by Gosstroiizdat, Moscow, 1963, 391p.
To be published by ST in 1965.

Kil'chevskii, N. A.
FUNDAMENTALS OF ANALYTICAL MECHANICS.
Mono. Osnovy Analiticheskoi Mekhaniki Obolochek, Kiev, 1963, 354p.

Klinger, F.
YOU UNDERSTAND MATHEMATICS.
Unidentified French mono. pub. by Editions du Jour, n. p., n. d.
To be published by ST in early 1965.

Konobeevskii, S. T., Pravdyuk, N. F. and others.
THE EFFECT OF NEUTRON RADIATION ON THERMAL FRICTION.
Mono. Vliyanie Neitronnogo Oblucheniya na Vnutrennee Trenie, Moscow, 1962, 37p.

Korenman, I. M.
INTRODUCTION TO QUANTITATIVE ULTRA-MICROANALYSIS.
Unidentified Russian mono., n. p., n. d.
To be published by ST in early 1965.

Krasnosel'skii, M. A.
PLANE VECTOR FIELDS.
Mono. [Vektornye Polya na Ploskosti, Moscow, 1963, 246p].
To be published by ST in early 1965.

Krauss, D.
MEASUREMENT OF RADIOACTIVITY IN THE AIR RESULTING FROM THE OPERATION OF THE DARMSTADT 60 MEV ELECTRON LINEAR ACCELERATOR.
Thesis, Darmstadt, 1963.

Kubo, R. and others.
SOLID STATE PHYSICS.
Unidentified Japanese mono. pub. by Iwanami Shoten, n. p., n. d.
To be published by ST in 1965.

Kudryavtsev, E. V. and [Chakalev, K. N.].
UNSTEADY STATE HEAT TRANSFER.
Mono. [Nestatsionarnyi Teploobmen, Moscow, 1961, 156p].
To be published by ST in early 1965.

Lebesgue, H.
MEASUREMENT OF MAGNITUDE.
Unidentified French mono., n. p., n. d.
To be published by ST in 1965.

Luchka, A. Yu.
THEORY AND APPLICATION OF THE METHOD OF AVERAGING OF FUNCTIONAL CORRECTIONS.
Mono. [Teoriya i Primenie Metoda Osredneniya Funktsional'nykh Popravok, Kiev, 1963, 131p].
To be published by ST in 1965.

Maiofis, I. M.
ELECTRICAL (PLASTIC) INSULATION MATERIALS.
Unidentified Russian mono., n. p., n. d.
To be published by ST in early 1965.

Masse, P.
[NO ENGLISH TITLE GIVEN].
Mono. les Réserves et la Régulation de l'Avenir dans la Vie Économique. I. Avenir Determiné. II. Avenir Aléatoire, Paris, 1946, 378p.

Mathieu, J.
[NO ENGLISH TITLE GIVEN].
Thesis Contribution à l'Etude Aérothermique d'un Jet Plan Evoluant en Présence d'une Paroi.

Mityashev, B. N.
PULSE TIME DETERMINATION IN THE PRESENCE OF NOISE.
Mono. [Opredelenie Vremennogo Polozheniya Impul'sov pri Nalichii Pomekh, Moscow, 1962, 200p].
To be published by ST in 1964.

Mozzhukhin, A. S. and Rachinskii, F. Yu.
CHEMICAL PROPHYLAXIS OF RADIATION INJURIES.
Russian mono. Khimicheskaya Profilaktika Radiatsionnykh Porazhenii, n.p., 1964, p. 1-244.

Mukhin, K. N.
INTRODUCTION TO NUCLEAR PHYSICS.
Mono. [Vvedenie v Yadernuyu Fiziku, Moscow, 1963, 588p].
To be published by ST in 1965.

Nazarchuk, M. N.
THE FLOW OF GAS IN CHANNELS IN THE PRESENCE OF HEAT EXCHANGE.
Mono. Techeniya Gaza v Kanalakh pri Nalichii Teploobmena, Kiev, 1963, 123p.

Neusser, H.
THE SURFACE QUALITY OF CHIPBOARDS, CAUSES AND TESTING.
Holzforschung und Holzverwertung (Austria) 1963, v. 15, no. 5, p. 83-88.

Novikov, Makarov, Borisov and others.
PROBLEMS IN WAVE DIFFRACTION AND PROPAGATION, II.
Russian mono. Problemy Difraktsii i Rasprostraneniya V. II, n.p., 1962, 217p.

Nultsch, W.
GENERAL BOTANY.
Unidentified German mono. pub. by Georg Thieme Verlag, n.p., n.d.
To be published by ST in 1965.

Ostrowski, A.
DIFFERENTIAL AND INTEGRAL CALCULUS. VOL. I. FUNCTIONS OF ONE VARIABLE.
Unidentified German mono. pub. by Birkhäuser Verlag, n.p., n.d.
To be published by ST in 1965.

Papoular, R.
ELECTRICAL PHENOMENA IN GASES.
Unidentified French mono. pub. by Dunod, n.p., n.d.
To be published by ST in early 1965.

Pauli, W.
FORMULATION OF THE LAWS OF NATURE IN TERMS OF FIVE HOMOGENOUS COORDINATES, PTS. I-II.
Ann[alen der] Physik (Germany) 1933, ser. 5, v. 18, p. 305-372.

Petrovskii, I. G.
PARTIAL DIFFERENTIAL EQUATIONS.
Mono. [Lektsii ob Uravneniyakh s Chastnymi Proizvodnymi, 3d ed., Moscow, 1961, 400p].
To be published by ST in early 1965.

Pravdyuk, N. F. and Amaev, A. D.
SOME REGULARITIES IN THE CHANGE OF FUNDAMENTAL MECHANICAL PROPERTIES OF CONSTRUCTION MATERIALS UNDER NEUTRON RADIATION.
Mono. Nekotorye Zakonomernosti v Izmenenii Osnovnykh Mekhanicheskikh Svoistve Konstruktsionnykh Materialov pri Neitronnom Obluchenii, Moscow, 1962, 39p.

Pravdyuk, N. F., Panasyuk, N. S. and others.
TECHNIQUES OF IRRADIATING MATERIALS IN A REACTOR.
Mono. Tekhnika Obliucheniya Materialov v Reaktore, Moscow, 1962, 57p.

Pshezhetskii, S. Ya.
MECHANISM OF RADIOCHEMICAL REACTIONS.
Mono. [Mekhanizm Radiatsionno-Khimicheskikh Reaktsii, Moscow, 1962, 360p].
To be published by ST in 1965.

Savidan, L.
CHROMATOGRAPHY.
Unidentified French mono. pub. by Dunod, n.p., n.d.
To be published by ST in 1964.

Shchigolev, B. M.
MATHEMATICAL TREATMENT OF OBSERVATIONS.
Russian mono. [Matematicheskaya Obrabotka Nablyudenii, Moscow, 1960, 344p].
To be published by ST in 1964.

Schmidt-Matthiesen, H., ed.
THE NORMAL HUMAN ENDOMETRIUM.
Unidentified German mono. pub. by Georg Thieme Verlag, n.p., n.d.
To be published by ST in 1965.

Shpol'skii, E. V.
ATOMIC PHYSICS.
Mono. [Atomnaya Fizika, Moscow, 1963, 575p].
To be published by ST in 1965.

Spirin, A. S.
MACROMOLECULAR STRUCTURE OF RIBONUCLEIC ACIDS.
Mono. [Nekotorye Problemy Makromolekulyarnoi Struktury Ribonukleinovykh Kislot, Moscow, 1963, 79p].
To be published by ST in 1964.

Stepin, L. D.
QUANTUM RADIOPHYSICS.
Mono. [Kurs Lektsii po Kvantovoi Radiofizike, Kharkov, 1963, 171p].
To be published by ST in 1965.

Südhoff, H., ed.
THE DIAGNOSTIC GLANCE: AN ATLAS FOR DIFFERENTIAL DIAGNOSIS OF INTERNAL DISEASES.
Unidentified German mono. pub. by Schattauer Verlag, n. p., n. d.
To be published by ST in 1965.

Takai, H.
THEORY OF AUTOMATIC CONTROL.
Unidentified Japanese mono. pub. by OHM-Sha, n. p., n. d.
To be published by ST in early 1965.

Tchoubar, B.
MECHANICAL REACTIONS IN ORGANIC CHEMISTRY.
Unidentified French mono. pub. by Dunod, n. p., n. d.
To be published by ST in early 1965.

Tsederberg, N. V.
THERMAL CONDUCTIVITY OF LIQUIDS AND GASES.
Mono. [Teploprovodnost' Gazov i Zhidkostei, Moscow, 1963, 408p].
To be published by ST in early 1965.

Turov, E. A.
PHYSICAL PROPERTIES OF MAGNETICALLY ORDERED CRYSTALS.
Mono. [Fizicheskie Svoistva Magnitouporyadochennykh Kristallov, Moscow, 1963, 224p].
To be published by ST in 1964.

Vedeneev, V. I. and others.
BOND ENERGIES, IONIZATION POTENTIALS AND ELECTRON AFFINITIES.
Mono. [Energii Razryva Khimicheskikh Svyazei-Potentsialy Ionizatsii, Srodstvo k Elektronu, Moscow, 1962, 216p].
To be published by ST in 1964.

Voitkevich, A. A.
THE FEATHER.
Mono. [Pero Ptitsy, Moscow, 1962, 288p].
To be published by ST in 1964.

Volkersen, O.
RECENT EXAMINATIONS OF THE THEORY OF ADHESIVE BINDING.
Mono. Neuere Untersuchungen zur Theorie der Klebverbindungen, Cologne, 1963.

Zabrodskii, S. S.
HYDRODYNAMICS AND HEAT TRANSFER IN FLUIDIZED BEDS.
Mono. [Gidrodinamika i Teploobmen v Pseudoozhizhennom Sloe, Moscow/Leningrad, 1963, 488p].
To be published by ST in 1965.

Zaretskii, I. I.
NEURO-HORMONAL REGULATION OF THE FUNCTION OF KIDNEYS AND WATER-SALINE METABOLISM.
Mono. Klinicheskaya Fiziologiya i Metody Funktsional'noi Diagnostiki Pochek, Moscow, 1963, p. 106-151, 279-280.

Zel'dovich, Ya. B. and Raizer, Yu. P.
PHYSICS OF SHOCK WAVES AND HIGH TEMPERATURE HYDRODYNAMIC PHENOMENA.
Mono. [Fizika Udarnykh Voln i Vysokotemperaturnykh Gidrodinamicheskikh Yavlenii, Moscow, 1963, 632p].
To be published by ST in 1965.

PERIODICALS TRANSLATED COVER-TO-COVER

For basic list of Periodicals Translated Cover-to-Cover see Technical Translations Volume 12, Number 1. This basic list is kept up-to-date by giving only changes in the subsequent issues of Technical Translations.

Please note the following changes:

AKADEMIYA NAUK SSSR. DOKLADY
(Soviet Mathematics)

Translation begins with 1963, v. 152, nos. 1-6-
Single issues $7.00

Order from: $35.00/year
American Mathematical Society
190 Hope Street
Providence, Rhode Island 02906

AKADEMIYA NAUK SSSR. IZVESTIYA SERIYA GEOFIGHESKAYA
(Bulletin (Izvestiya) Academy of Sciences, USSR. Geophysics Series)

Translations begins with 1957, v. 7, no. 1-
Single issues, 1957-1963, $7.50

Order from: $75.00/year
American Geophysical Union
Suite 506, 1145 19th Street, N. W.
Washington, D. C. 20036

ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI
(Soviet Physics - JETP)

Translation begins with 1955, v. 28, no. 1-
Single issues 1955-1963, $8.00; 1964- $9.00

Order from: $95.00/year
American Institute of Physics
335 East 45th Street
New York, New York 10017

Tables of Contents of Recently Translated Journal Sections

Following is a list by foreign title of the Table of Contents appearing in this issue.

The Reproduced Tables of Contents are arranged alphabetically by English title.

Akademiya Nauk SSSR. Izvestiya C-285
Seriya Geofizicheskaya, 1964,
no. 1, p. 3-159; no. 2, p. 161-311;
no. 3, p. 313-436.
Order from AGU $75.00/year

Akademiya Nauk SSSR. Izvestiya C-288
Seriya Fizicheskaya, 1963, v. 27,
no. 5, p. 590-703ff; no. 6, p. 710-841ff;
no. 7, p. 851-986ff; no. 8, p. 994-1113ff;
1964, v. 28, no. 1, p. 134ff, 138ff, 141ff.
Order from CTT $20.00, $215.00/year

Denki Tsushin Gakkai Zasshi..... C-296
(Japan) 1963, v. 46, nos. 4-6.
Order from IEEE $35.00/year

Przeglad Epidemiologiczny (Poland)..... C-299
1963, v. 17, no. 1/2.
Order from OTS $1.50 TT-63-11414/1-2

Zdorov'e (USSR) 1964 [v. 10] C-300
no. 1, p. 3-4, 6-7, 10.
Order from OTS $0.75 TT-64-31156

Metallurg (USSR) 1963, no. 9, ... C-301
p. 1-36; no. 10, p. 3-40; no. 11,
p. 4-40; no. 12, p. 1-36 and author
index; 1964, v. 9, no. 1, p. 1-39;
no. 2, p. 1-39.
Order from CB $25.00/year

Fiziologicheskaya Rol' Atsetilkholina C-308
i Izyskanie Novykh Lekarstvennykh
Veshchestv, Leningrad, 1957, 462p.
Order from OTS $7.50 TT-64-31091

Voprosy Kosmogonii (USSR) 1952, ... C-313
v. 1, p. 1-285.
Order from OTS $4.00 TT-64-31319

Voprosy Kosmogonii (USSR) 1954, ... C-315
v. 2, p. 1-363.
Order from OTS $5.00 TT-64-31104

Voprosy Kosmogonii (USSR) 1957, ... C-318
v. 5, p. 1-299.
Order from OTS $4.00 TT-64-31162

Voprosy Filosofii (USSR) 1963, ... C-322
v. 17, no. 12, p. 16-34, 160-167.
Order from OTS $1.25 TT-64-31177

Seminar po Metodam Matematicheskogo C-323
Modelirovaniya i Teorii Elektricheskikh
Tsepei. Trudy, no. 1, Kiev, 1963, 247p.
Order from OTS $5.00 TT-64-21989

K'o Hsüeh T'ung Pao (Chinese C-325
People's Republic) 1964, no. 1,
p. 52-56, 71-73, 76-77.
Order from OTS $0.75 TT-64-31167

Akademiya Nauk SSSR. Doklady, ... C-326
1964, v. 154, no. 1, p. 9-63; no. 2,
p. 247-278; no. 3, p. 495-544; no. 4,
p. 751-802; no. 5, p. 1007-1049; no. 6
p. 1247-1293.
Order from AMS $7.00, $35.00/year

Zhurnal Eksperimental'noi i C-329
Teoreticheskoi Fiziki (USSR) 1963,
v. 45, no. 6, p. 1693-2115; 1964, v. 46,
no. 1, p. 3-406; no. 2, p. 409-818; no. 3,
p. 821-1155.
Order from AIP $9.00, $95.00/year

Stantsii v Kosmose: Sbornik Statei, ... C-337
Moscow, 1960, p. 42-46, 49-54, 66-68,
214-229, 234-238, 259-264, 272-275,
284-288, 291-299, 376-380.
Order from OTS, SLA, or ETC $6.60 TT-64-15231

Stroenie i Svoistva Splavov Urana, ... C-338
Toriya i Tsirkoniya, Moscow, 1963,
p. 16-21, 47-76, 294-298.
Order from OTS $1.25 TT-64-31154

Akademiya Nauk SSSR. Izvestiya. C-339
Tekhnicheskaya Kibernetika, 1964,
no. 1, p. 3-208.
Order from OTS $5.00 TT-64-31235

Teoriya Veroyatnostei i Ee C-341
Primeneniya (USSR) 1963, v. 8,
nos. 2 and 4.
Order from SIAM $18.00/year

Voprosy Kosmogonii (USSR) 1960, ... C-320
v. 7, p. 1-383.
Order from OTS $5.00 TT-64-31318

Akademiya Nauk SSSR. Institut C-343
Biologii, Sverdlovsk. Trudy, 1962,
no. 28, 130p.
Order from OTS, SLA, or ETC $13.50 TT-64-15232

Akademiya Nauk SSSR. Institut C-344
Fiziologii. Trudy, 1959, v. 8,
p. 1-632.
Order from OTS, SLA, or ETC $38.50 TT-64-15262

These Contents are reproduced from best available copy.

English Edition of
Bulletin (Izvestiya), Academy of Sciences, USSR, Geophysics Series No. 1, 1964

CONTENTS

	Page English	Page Russian
PHYSICS OF THE SOLID EARTH		
A. S. ALEKSEEV, I. S. VOL'VOVSKIĬ, N. I. ERMILOVA, P. V. KRAUKLIS AND V. Z. RYABOĬ, The Physical Nature of Various Waves Recorded in Deep Seismic Sounding	1	3-19
T. I. OBLOGINA, The Form and Spectrum of Diffracted Seismic Waves	11	20-28
N. G. MIKHAĬLOVA AND B. S. PARIĬSKIĬ, Calculation of Theoretical Seismograms for the Simplest Cases of the Structure of a Medium at Normal Incidence	16	29-39
O. A. DEMIDOVICH, Some Results Obtained from the Statistical Treatment of Electrical Prospecting Data	22	40-54
V. N. STRAKHOV, The Problem of Obtaining the Best Numerical Methods for the Transformation of Potential Fields. II	30	55-67
V. N. STRAKHOV, The Problem of Obtaining the Best Numerical Methods for the Transformation of Potential Fields. III	36	68-81
Scientific Reports		
Kh. M. MALIKOV, Waves Generated by Pressures on the Walls of Spherical and Cylindrical Cavities in an Anisotropic Medium	43	82-84
M. S. ANTSYFEROV, N. G. ANTSYFEROVA AND YA. YA. KAGAN, A Study of the Propagation Velocities and Absorption of Elastic Waves in Frozen Sand	45	85-89
F. A. KIRILLOV, On the Reasons for the Reduction of the Seismic Effect Following a Delayed Explosion	49	90-97
YU. A. BUEVICH, Solution of the First, Second, and Third Stefan Boundary Value Problems in a Semi-Infinite Space with Constant Boundary Conditions and a Uniform or Linear Initial Temperature Distribution	55	98-104
A. V. TSIRUL'SKIĬ AND M. I. SIROTIN, On the Analytic Continuation of a Logarithmic Potential	59	105-109
PHYSICS OF THE SEA AND OF THE ATMOSPHERE		
E. N. BLINOVA, The Status and Current Problems of Hydrodynamic Climate Theory and Long-Range Weather Forecasting	62	110-123
M. I. YUDIN AND I. L. VULIS, Application of Statistical Methods to the Study of the Finite-Difference Structure of the Balance Equation	68	124-135
KH. KH. KALAZHOKOV AND L. N. GUTMAN, On the Dynamical Structure of Fronts	74	136-149
Scientific Reports		
YU. S. SEDUNOV, Certain Questions on the Coagulation of Particles in Turbulent Flow	80	150-156
ST. PANCHEV, On the Selection of a "Step" in the Finite Difference Differentiation of Certain Meteorological Elements	85	157-159

English Edition Published April 1964

C-285

English Edition of
Bulletin (Izvestiya), Academy of Sciences, USSR, Geophysics Series No. 2, 1964

CONTENTS

	Page English	Page Russian
PHYSICS OF THE SOLID EARTH		
V. V. ÉZ, Tectonic Conditions for the Occurrence of Violent Earthquakes in the Czechoslovak Carpathians	87	161-173
N. I. KHALEVIN, The Physical Properties of Rocks and Formations of the Krasnoural'sk Intersection of the N. Tagil Synclinorium of the Urals	95	174-183
A. S. ALEKSEEV, I. S. VOL'VOVSKIĬ, N. I. ERMILOVA, P. V. KRAUKLIS, AND V. Z. RYABOĬ, The Physical Nature of Various Waves Recorded in Deep Seismic Sounding	103	184-195
A. V. CHERKUNOV AND G. M. PUSTOVALOVA, Use of Subcritical Reflections in Deep Seismic Sounding on the Southern Slope of the Ukrainian Shield	110	196-205
E. I. PARKHOMENKO AND CHZHAO TSZE-SAN' (CHAO CHIEN-SAN), A Study of the Influence of Moisture on the Magnitude of the Seismoelectric Effect in Sedimentary Rocks by a Laboratory Method	115	206-212
V. N. STRAKHOV, The Problem of Obtaining the Best Numerical Method for the Transformation of Potential Fields. IV	119	213-227
G. YA. GOLIZDRA, The Derivation of Numerical Methods for the Analytic Continuation of Two-Dimensional Potential Fields Using LaGrange Interpolation	126	228-235
Scientific Reports		
L. M. AL'PIN, On a Solution of the Fundamental Problem of Resistivity Logging	131	236-238
L. L. KHUDZINSKIĬ, The "ShPSS" Wide-Band Seismic Station	133	239-246
D. G. LEVCHENKO AND A. F. KOTYUK, Induction Pickups of Prescribed Dimensions for Measuring Weak Audio-Frequency Magnetic Fields: The Coil of the Induction Pickup II	139	247-253
K. B. KARANDEEV, D. S. DAEV, É. V. PAS'KO AND G. A. SHTAMBERGER (STAMBERGER), Design Principles for Apparatus for Geophysical Prospecting by Alternating-Current Methods	144	254-259
ANONYMOUS, N. A. Linden	149	260
CHRONICLE		
I. P. KOSMINSKAYA, Questions of the Study of the Earth's Crust at the 13th Assembly of the IUGG	150	261-263
PHYSICS OF THE SEA AND OF THE ATMOSPHERE		
V. V. SHULEIKIN, The Transport of Heat by Currents in the Closed Cycle of the North Atlantic	153	264-278
K. S. SHIFRIN AND G. L. SHUBOVA, The Statistical Characteristics of the Vertical Transparency of the Atmosphere	161	279-284
S. A. MASHKOVICH, An Objective Analysis of Aerological Observations and the Requirements for the Distribution of a Network of Stations	165	285-292
B. N. TRUBNIKOV, An Investigation of Air Flow over Mountainous Regions with Thermally Inhomogeneous Surfaces	170	293-301
Scientific Reports		
R. L. KAGAN, On the Calculation of Instrument Inertia During Meteorological Measurements	175	302-308
O. I. MAMAEV, A Simplified Relationship between Density, Temperature and Salinity of Sea Water	180	309-311

English Edition Published June 1964

C-286

English Edition of
Bulletin (Izvestiya), Academy of Sciences, USSR, Geophysics Series No. 3, 1964

CONTENTS

	Page English	Page Russian
PHYSICS OF THE SOLID EARTH		
B. N. SHECHKOV, Seismic Surface Wave Dispersion and Eurasian Crustal Structure	183	313-321
V. G. GRATSINSKII, Investigation of Elastic Waves in a Model of a Well	188	322-338
TEN TSEI-WEN, Dynamic Characteristics of Seismic Waves in Real Media in the Presence of a Fault	200	339-348
V. I. BARANOV, V. K. KHRISTIANOV, B. V. KARASEV AND G. I. PANOV, Neutron-Borometric Assaying of Outcrops and Open-Pit Mines	206	349-353
A. P. IVANOV, V. N. NIKITINA AND O. A. SKUGAREVSKAYA, Spectral Interpretation of Electromagnetic Field Build-Up Curves	210	354-359
V. N. PONOMAREV AND A. N. BAKHVALOV, Determination of the Attitude of a Thin Bed from Internal Magnetic Field Measurements	214	360-369
Scientific Reports		
L. S. MAKSIMOV AND V. A. TOKMAKOV, The Use of a Modified SPM-16 Seismometer for Recording Displacements in Oscillatory Motion	220	370-373
V. I. BONDAREV, The Influence of Angular Errors in Mounting on the Accuracy of Determination of Particle-Displacement Directions from Azimuthal Seismic Observations	223	374-377
G. A. SOBOLEV, Some Calculations of Fields for Piezoelectric Surveying	226	378-385
A. YA. VLASOV AND A. A. BOGDANOV, Domain Structure in a Single Crystal of Magnetite	231	386-391
A. A. MEĬER, The Potential of a Point Source of Current in a Semi-Infinite Inhomogeneous Medium with Conductivity Varying in a Direction Parallel to the Surface	235	392-393
PHYSICS OF THE SEA AND THE ATMOSPHERE		
M. S. MALKEVICH, A. S. MONIN, AND G. V. ROZENBERG (ROSENBERG), The Spatial Structure of a Radiation Field as a Source of Meteorological Information	237	394-407
E. A. NOVIKOV AND R. W. STYUART (STEWART), The Intermittency of Turbulence and the Spectrum of Energy Dissipation Fluctuations	245	408-413
T. I. SISIGINA, Vertical Distribution of Radon in the Boundary Layer of the Atmosphere (0-300 m) in Connection with Changing Meteorological Conditions	249	414-421
Scientific Reports		
I. YA. TYUKOV, The Problem of Vertical Distribution of the Density Field in a Baroclinic Sea	255	422-425
E. A. NOVIKOV, The Relative Motion of Liquid Particles in Turbulent Flow	258	426-429
K. I. CHUKANIN, Certain Peculiarities of the Atmospheric Circulation and of the Magnetic Field of the Earth	261	430-435
KH. F. TAMMET, Determination of the Effective Capacitance of the Cylindrical Aspiration Condenser of an Ion Counter	266	436

English Edition Published July 1964

C-287

BULLETIN OF THE USSR ACADEMY OF SCIENCES - Physical Series

TABLE OF CONTENTS

	Page Orig.	Trans.
Transactions of the Eleventh Conference on Luminescence (Molecular Luminescence) (Continued from Vol.27, No.4; to be continued in Vol.27, No.6)		
Association of rhodamine 6G molecules in binary solvents - V.G.Bocharov & L.V.Levshin	590	591
Exciton luminescence of molecular crystals - V.L.Broude, E.F. Sheka & M.T.Shpak	596	597
Fluorescence and phosphorescence spectra of α- and β-methyl-naphthalenes in normal and isoparaffinic solvents at 77°K - V.L.Levshin & Kh.I.Mamedov	606	607
Nonstationary emission by a lasing plane-parallel slab - A.M.Samson & V.A.Savva	609	611
Calculation of the effect of multiple absorption and emission processes on polarization of luminescence - K.S.Adzerikho	613	615
Modes of internal deactivation of excited aromatic molecules in vitreous solutions - V.L.Ermolaev	617	619
Quantitative investigation of the temperature dependence of the absorption and fluorescence spectra of complex molecules - I.V.Piterskaya & N.G.Bakhshiev	623	625
Absorption and fluorescence of vinylanthracenes and change of their molecular configuration due to excitation - A.S. Cherkasov & V.G.Voldaikina	628	630
Investigation of photoexcited triplet states of polyatomic molecules by observation of EPR and phosphorescence - A.K. Piskunov, R.N.Nurmukhametov, D.N.Shigorin, V.I.Muromtsev & G.A.Ozerova	634	636
Effect of temperature on the probability for transition of molecules to the phosphorescent state - A.V.Aristov & B.Ya. Sveshnikov	638	639
Concerning the temperature dependence of the phosphorescence yield of organic phosphors - V.A.Pilipovich & N.I.Tursunov	641	642
Growth of the phosphorescence of organic luminophors - M.D. Khalupovskii	644	645
Phosphorescence of carbazole and phenanthrene at liquid oxygen temperature - B.A.Pyatnitskii & A.I.Vlasenko	647	648
Temperature dependence and nature of the electronic absorption spectra of uranyl compounds - L.V.Volod'ko, A.N.Sevchenko & D.S.Umreiko	651	651
Electronic-vibrational processes and polarized luminescence of mercury-like centers in cubic crystals - S.G.Zazubovich, N.E. Lushchik & Ch.B.Lushchik	656	655
Luminescence of halide solutions of arsenic, gallium and selenium - M.U.Belyi & I.Ya.Kushnirenko	661	660

Spectral characteristics of luminescent electrolyte solutions - M.U.Belyi & B.A.Okhrimenko	666	664
Luminescence of platinocyanic compounds - A.M.Tkachuk	670	668
Radiative quenching of photoluminescence in PbI_2 crystals - I.S.Gorban' & V.M.Kosarev	675	673
Luminescence of sodium nitrite at low temperatures - A.F. Yatsenko & Yu.A.Kulyupin	679	677
Luminescence spectra of some polyphenyls and diphenylpolyenes - T.N.Bolotnikova & G.V.Gobov	683	681
Luminescence spectra of solutions of indigo and some of its derivatives at 77°K - R.N.Nurmukhametov, D.N.Shigorin & Yu.I.Kozlov	686	685
Spectra of frozen solutions of two impurities between which excitation energy transfer may occur - V.K.Dobrokhotova, V.A.Kul'chitskii & Yu.V.Naboikin	690	689
Luminescence spectra of perylene and diisobutyl ester of 3,9-perylenedicarboxylic acid at 20.4°K - M.M.Val'dman & G.D. Sheremet'ev	693	692
Concerning the nature of the fine structure of the quasiline spectra of aromatic hydrocarbons in frozen paraffin solutions - G.V.Svishchev	696	695
Energy migration and transfer in two-component mixtures - V.S.Rubanov	700	698
Fluorescence spectra and efficiencies of some coumarin derivatives - P.I.Petrovich & N.A.Borisevich	703	701

Translated in 1964 by
Columbia Technical Translations
5 Vermont Ave., White Plains, N.Y.

Subscriptions: $215 per annum.
Single issues: $20 each.
Individual articles: $8 each.

Vol. 27, No. 6

LUMINESCENCE III (11)
X-RAY SPECTROSCOPY II (6)

BULLETIN OF THE USSR ACADEMY OF SCIENCES - Physical Series

TABLE OF CONTENTS

	Page Orig.	Trans.
Transactions of the Eleventh Conference on Luminescence (Molecular Luminescence) (Continued from Vol. 27, Nos.4 & 5)		
Luminescence of solutions and salts of organic-rare earth complexes - A.N.Sevchenko, V.V.Kuznetsova & V.S.Khomenko	710	711
Influence of temperature on the phosphorescence of organic substances - G.M.Kislyak & G.M.Lysenko	717	717
Concerning the shape of luminescence spectra excited in the anti-Stokes region - G.P.Gurinovich, E.K.Kruglik & A.N. Shevchenko	720	720
Variation of the intensity and polarization of secondary luminescence as a function of the layer depth and dye concentration - L.A.Kravtsov	724	724
Investigation of chemiluminescence incident to oxidation reactions in the liquid phase - R.F.Vasil'ev & A.A.Vichutinskii	729	728
Nature of chemiluminescence associated with low-temperature oxidation of acetaldehyde - L.M.Postinkov, V.F.Shuvalov & V.Ya. Shlyapintokh	735	734
Influence of the medium on the optical characteristics of some five-membered heterocyclic compounds - L.M.Kutsyna & L.A. Ogurtsova	739	738
Influence of the medium on the electronic spectra of 2,6-dimethylnaphthalene - O.P.Kharitonova	745	743
Luminescence of naphthylic and anthrylic derivatives of ethylene - L.L.Nagornaya, R.N.Nurmukhametov, L.Ya.Malkes & L.V.Shubina	748	747
Effect of the substituent on the luminescence of azomethines - Ya.A.Terskoi, B.M.Bolotin, V.G.Brudz' & D.A.Drapkina	754	753
Influence of temperature on the luminescence of complex molecules in different media - L.G.Pikulik & L.F.Gladchenko	758	756
Luminescence spectrum of pentaphenyl - E.N.Matveeva, M.N.Medvedev, O.G.Rubina & M.D.Shafranov	763	760
Luminescence of para-vinyldiphenyl - E.N.Matveva, M.N.Medvedev, M.G.Pisareva & M.D.Shafranov	765	762
Spectroluminescent properties of benzoporphyrins - K.N.Solov'ev, S.F.Shkirman & T.F.Kachura	767	763
Some results obtained in applying pulse spectroscopy methods to study of porphyrins - G.P.Gurinovich & A.I.Patsko	772	767
Spectroluminescent investigation of photochemical conversion of porphyrins - G.P.Gurinovich, M.V.Pateeva & A.M.Shul'ga	777	771
Absorption and fluorescence spectra of water-soluble analogs of chlorophyll - I.G.Savkina & V.B.Evstigneev	782	776
Concerning luminescence of chlorophyll solutions - F.Ya.Sid'ko & N.S.Eroshin	787	780
Luminescence of glycinin - A.V.Karyakin & L.A.Chmutina	791	783
Concerning protomeric forms of fluorescein and uranin - M.A. Avetisyan, V.S.Adamov, L.T.Kantardzhyan & S.S.Chirkinyan	796	788
Luminescence of glasses with rare earth activators - G.O.Karapetyan	799	791
Closing address - V.L.Levshin	803	795

Operation of proportional counters in the ultrasoft x-ray region - A.P.Lukirskii, O.A.Ershov & I.A.Brytov	806	798
Mass absorption coefficients of argon and ethyl alcohol in the ultra-soft x-ray region - A.P.Lukirskii & T.M.Zimkina	817	808
Regarding determination of x-ray fluorescence yields from photo-emission discontinuities - M.A.Rumsh & V.N.Shchemelev	821	812
Experimental verification of methods for correcting x-ray spectra - M.I.Korsunskii & Ya.E.Genkin	829	819
Residual distortion of methods of correcting x-ray spectra - V.I.Malyi	831	821
Concerning temperature "melting" of the short-wavelength fine structure in the K absorption spectra of pure metals - G.N.Ronami & O.P.Sharkin	835	824
Effect of temperature on the fine structure of the L_{III} absorption spectra of indium and cadmium - O.P.Sharkin	838	827
Determination of the microscopic characteristics of solids from the fine structure of their x-ray absorption spectra - I.B.Borovskii	841	830

Translated in 1964 by
Columbia Technical Translations
5 Vermont Ave., White Plains, N.Y.

Subscriptions: $215 per annum.
Single issues: $20 each.
Individual articles: $8 each.

BULLETIN OF THE USSR ACADEMY OF SCIENCES - Physical Series

Table of Contents

	Page Orig.	Trans.
Transactions of the Thirteenth Annual Conference on Nuclear Spectroscopy (Continued from Vol.27, No.2; to be cont. in Vol.27, No.10 & 11 and Vol.28, No.1)		
Energy levels of nonspherical odd nuclei (A review) - A.S.Davydov	851	841
Lifetime of the 880 keV 2^+ state of Ti^{46} - A.F.Akkerman, V.L. Kochetkov, & V.N.Chekanov	862	852
Lifetime of the first excited state of Ti^{48} - A.F.Akkerman, V.L. Kochetkov, V.N.Chekanov, G.V.Oslopovskikh, V.A.Suvorov & A.K. Shtol'ts	865	855
Levels in C^{12} and O^{16} observed in studying the gamma absorption cross section in the region of the giant resonance - N.A.Burgov, G.V.Danilyan, B.S.Dolbilkin, L.E.Lazareva & F.A.Nikolaev	866	856
Angular distribution of Mossbauer 100.09 keV gamma-rays from W^{182} - A.V.Davydov & V.P.Selyutin	875	864
Concerning the accuracy of superfluid model calculations of the properties of strongly deformed nuclei - M.K.Volkov, A.Pavlikovski, V.Rybarska & V.G.Solov'ev	878	867
Calculation of nuclear radii on the basis of alpha-decay theory taking into account pairing correlations of the superconductivity type - T.Veresh	891	880
Decay scheme for In^{116} - V.S.Pavlov, G.V.Danilyan & I.Ya.Korol'kov	895	884
Characteristics of quasi-stationary levels of the continuum in the Woods-Saxon real potential for nuclei with A = 5 to 240 - V.E. Kolesov & V.L.Korotkikh	900	887
Elastic scattering of neutrons from O^{16} and C^{12} - V.E.Kolesov, V.L. Korotkikh & V.G.Malashkina	903	889
On anomalously stable above-threshold states of C^{13} and N^{13} - A.N. Boyarkina & I.Rotter	907	893
Determination of the apertures for a $\pi\sqrt{2}$ double focusing β-spectrometer with two successive foci - A.V.Zolotavin	914	899
Excitation functions of nuclear reactions occurring incident to fast proton bombardment of Bi^{209} - B.I.Belyaev, A.V.Kalyamin & A.N.Murin	923	907
Inelastic scattering of deuterons by some chromium, zinc and tin isotopes - O.F.Nemets & V.V.Tokarevskii	927	911
Photomultiplier tubes with toroidal dynodes - A.G.Berkovskii, V.G. Gusel'nikov & F.E.Shapovalov	932	916
New miniature photomultipliers - A.G.Berkovskii & T.A.Filimonova	937	920
Concerning simultaneous measurement of the particle energy and emission angle by means of solid state detectors - G.E.Kocharov & Yu.N.Starbunov	940	922
Conditions for a maximum nuclear resonance signal in a flow-through probe - A.I.Zhernovoi	942	924
Shift of the nuclear resonance signal in a flow-through NMR probe - A.I.Zhernovoi & A.B.Rukhin	945	926
Acceleration of polarization in a nuclear magnetic resonance flow-through probe - A.I.Zhernovoi, A.B.Rukhin & O.V.Stakhov	947	928

Amplitude-time discrimination against the gamma background in a scintillation spectrometer for fast neutrons - G.G.Doroshenko, I.V.Filyushkin & V.A.Fedorov 949 930
Measurement and stabilization of inhomogeneous magnetic fields with the aid of electron paramagnetic resonance - S.P.Pivovarov 956 936
Design of transistorized current regulators for nuclear spectrometers - I.M.Beskrovnyi, A.S.Butyaga & I.A.Kuragina 961 940

Transactions of the Fourteenth Conference on Spectroscopy

Effect of the nature and position of the substituent on the infrared spectra of benzene sulfochlorides and benzene sulfonates - R.V. Vizgert, A.F.Mal'nev & I.M.Mikhlina 969 947
Spectroscopic investigation of complexes of cobalt chloride with some alkaloids - V.B.Leont'ev & A.S.Sadykov 974 952
Investigation of formation of polymer coatings by the method of infrared spectroscopy - A.A.Babushkin, V.S.Golkova, L.M.Krylova, Ya.M.Kimel'fel'd & P.I.Zubov 978 956
Use of alkali halide salts as solid "solvents" in infrared spectroscopy - A.A.Boldin & R.F.Vasil'ev 981 958
Use of light amplifiers for spectroscopic investigation of weakly luminous plasmas - V.F.Bolotin, E.K.Zavoiskii, M.N.Oganov, G.E. Smolkin & A.R.Striganov 986 962

Translated in 1964 by
Columbia Technical Translations
5 Vermont Ave., White Plains, N.Y.

Subscriptions: $215 per annum.
Single issues: $20 each.
Individual articles: $8 each.

BULLETIN OF THE USSR ACADEMY OF SCIENCES - Physical Series

TABLE OF CONTENTS

Transactions of the Second Conference on the Physics of Electronic and Atomic Collisions

	Page Orig.	Trans.
Second All-Union Conference on the Physics of Electronic and Atomic Collisions - L.A.Sena	994	971
Probability of charge exchange in atomic collisions under conditions of random resonance - E.E.Nikitin	996	973
Charge exchange of alkali and alkaline earth atoms and ions - D.V.Chkuaseli, A.I.Guldamashvili & U.D.Nikoleishvili	999	976
Concerning calculation of off-resonance charge exchange and ionization of atoms in collisions with slow ions - V.I.Rydnik & B.M.Yavorskii	1005	981
Loss of electrons by fast Ca, Mg, Si and Fe atoms in encounters with N_2 and O_2 molecules - A.M.Bukhteev & Yu.F.Bydin	1009	985
Asymptotic behavior of the wave function of a system of neutral and charged particles - R.K.Peterkop	1012	987
Empirical formulas for excitation and ionization cross sections - I.Beigman & L.Vainshtein	1018	994
Introduction of a polarization potential into the radial equations of atomic collision theory - L.Vainshtein	1022	998
Use of a general method for constructing trial wave functions - V.D.Kamenetskii & V.T.Murav'ev	1027	1003
Trial function calculations of the collision of slow electrons with hydrogen atoms - V.T.Murav'ev	1030	1006
New experimental technique for investigating excitation in electron-atom collisions - I.P.Zapesochnyi & O.B.Shpenik	1033	1009
Excitation functions of some alkali metal atoms - I.P.Zapesochnyi & L.L.Shimon	1037	1012
New data on the excitation functions of inert gases - I.P. Zapesochnyi & P.V.Fel'tsan	1040	1015
Fine structure of the optical excitation functions of Zn, Cd and Hg atoms - I.P.Zapesochnyi & V.S.Shevera	1044	1018
Investigation of the bands of carbon dioxide excited by electron impact - S.M.Kishko & V.V.Skubenich	1049	1023
Determination of the excitation cross sections for the resonance lines of potassium - L.M.Volkova & A.M.Devyatov	1052	1025
Concerning the possibility of measuring optical excitation functions by means of modulated electron beams - I.P.Bogdanova & I.I.Geitsi	1056	1029
Procedure for measuring the ionization cross sections and ionization coefficients of metal atoms - A.P.Lyubimov, S.I.Pavlov & V.I. Rakhovskii & N.G.Zaitseva	1060	1033
Evaluation of the absolute cross sections for collisions of the second kind in a mixture of sodium and mercury vapors - S.E. Frish & O.P.Bochkova	1065	1038
Spin exchange - E.B.Aleksandrov, A.M.Bonch-Bruevich & V.A.Khodovoi	1070	1042
Variation of the average charge of fast ions as a function of the density of the medium - V.S.Nikolaev, I.S.Dmitriev, Ya.A. Teplova & L.N.Fateeva	1078	1049

Regarding the possibility of obtaining multiply charged ions in a cyclotron by proton impact - I.S.Dmitriev	1081	1052
Mass-spectrometric investigation of photoionization of molecules and dissociation of excited molecular ions - M.E.Akopyan, F.I. Vilesov & A.N.Terenin	1083	1054
Energy spectra of electrons detached in photoionization of molecules - F.I.Vilesov & B.L.Kurbatov	1088	1059
Excitation of free radicals incident to dissociation of polyatomic molecules by UV photons - N.Ya.Dodonova & A.N.Terenin	1094	1064
Step excitation and ionization of nitrogen - I.I.Gromova & A.V. Yakovleva	1097	1067
Dissociation of polyatomic ions in collisions with gas atoms and molecules - S.E.Kupriyanov & A.A.Perov	1102	1072
Probability for impact excitation of vibrations of diatomic molecules - N.A.Generalov & S.A.Losev	1110	1079
Mass-spectrometric study of the energy distribution of ions in plasma - A.B.Rastrepin, I.M.Zolototrubov & Yu.P.Bugai	1113	1082
Calculation of the probabilities for impact excitation of vibrational levels of molecules by the method of non-stationary theory - A.I.Osipov	134*	1087
Detection of neutral atoms with energies from 50 to 500 eV - A.I.Akishin, S.S.Vasil'ev, A.F.Tulinov & L.I.Tseplyaev	138*	1091
Influence of individual elementary processes on the characteristics of high-voltage discharges - L.G.Guseva	141*	1093

*The last three reports were published in the Russian original in Vol.28, No.1, and the indicated pages pertain to this issue. However, in order to keep all the conference reports together, we have shifted the translations to this issue.

Translated in 1964 by
Columbia Technical Translations
5 Vermont Ave., White Plains, N.Y.

Subscriptions: $215 per annum.
Single issues: $20 each.
Individual articles: $8 each.

ELECTRONICS AND COMMUNICATIONS IN JAPAN

電気通信学会雑誌

1963 VOLUME 46 NUMBER 4

CONTENTS

	Page
Shigebumi Saito: 1. General Survey of Low-Noise Amplifiers	1
Kaneyuki Kurokawa: 2. Noise Characteristics of Linear Amplifiers	11
Kaneyuki Kurokawa: 3. Measurement of Amplifier Noise Performance	21
Kenji Kakizaki and Jiro Koyama: 4. Low-Noise Traveling-Wave Tubes	28
Masamichi Kenmoku and Trou Matsuoka: 5. Electron-Beam Parametric Amplifier	41
Shoichi Kita: 6.1. Parametric Diodes	56
Syuiti Hayasi: 6.2. Diode Parametric Amplifier (Single Type)	63
Shigetaka Hamada and Yashuiro Ishii: 6.3. Diode Parametric Amplifier of Traveling-Wave Type	71
Fumio Inaba: 7. Solid-State Masers	79
Takashi Kitsuregawa: 8. Low-Noise Antennas	96
Yukio Kaito: 9. Diode-Parametric Amplifiers for Communication Systems	104
Takao Masuda and Takahiro Morinaga: 10. Applications to Broadband Radio Communication Systems	113
Fumio Yamagishi and Nobuhiko Kodaira: 11.1. Applications to Radar	127
Yasushi Tsuruoka and Shigeru Miyake: 11.2. Applications to Space Communications	148
Takeshi Nagatake: 11.3. Applications to Radio Astronomy	157
CONTRIBUTED PAPERS	
Heiichi Nukiyama: Free Trade and the Professional Community	166
Yoshio Ida and Yasuo Akao: Resonance of Surface-Charge Waves Along a Cylindrical Plasma Column	169
Fujio Ishihara: Distortion of Frequency-Modulated Pulses Due to a Quadratic Term of the Phase Constant	177
Hisayoshi Yanai, Takuo Sugano and Kunio Tada: Minority-Carrier Storage Effect in the Collector Region and the Storage Time of Transistors	186
ERRATA	193

ELECTRONICS AND COMMUNICATIONS IN JAPAN

電気通信学会雑誌

1963 VOLUME 46 NUMBER 5

CONTENTS

	Page
Satoshi Kojima: **Recent Trends of Telegraph and Telephone Engineering**	1
S. Ugai, S. Aoyagi and S. Nakahara: **Microwave Transmission Across Mountain Ridges by Using Diffraction Gratings**	7
Fujio Ishihara: **Broad-Band Matched Magic Tees**	18
Motonobu Yonekawa and Kiyotake Mochizuki: **Damping the Vibration of a Selecting Bar of a Crossbar Switch**	24
Yasuo Uehara: **Magnetic Properties of Thin Electrodeposited Nickel-Iron Films**	32
Yasuo Uehara: **Switching Properties of Electrodeposited Nickel-Iron Thin Films**	45
Atsushi Tachibana: **Synthesis of Distributed RC 1-Port Networks**	55
Jin-ichi Nagumo and Masao Saito: **Medical Electronics and Biological Engineering**	60
Asahide Tsuneta and Mikio Noguchi: **Recent Developments in Cathode-Ray Tubes**	68
Hisayoshi Yanai: **Recent Developments in Microminiaturization**	82

ELECTRONICS AND COMMUNICATIONS IN JAPAN

電気通信学会雑誌

1963 VOLUME 46 NUMBER 6

CONTENTS

Page

Shiyoji Watanabe, Shintaro Oshima and Hajime Enomoto: Analog Transmission-Characteristic Simulator Using Magnetic Circuits for Memory and Arithmetic Operation 1

Hiroshi Inose, Mikio Takagi and Toshiharu Aoki: A Method of Synchronization in Time-Division- Multiplexed Delta-Modulation System. 11

Kazuo Kawai: The Automatic-Gain-Control Circuit in the Short-Wave Telephone Receiver. 24

Yoshihiro Tohma: Decomposition of Logical Functions by Majority-Decision Elements 30

Kazuhiro Miyauchi and Osamu Ueda: Experiments on High-Speed Pulse Regeneration in the 11-Gc Region 40

Shoji Yoshida, Kozuhiko Goto and Shoji Ando: End-Mark Control of Telephone Switching Networks Using Compound Transistor Switches 52

Hisashi Kaneko: Nonlinear Coding Method 63

EPIDEMIOLOGICAL REVIEW

(PRZEGLAD EPIDEMIOLOGICZNY)

1963, VOL. 17, NO. 1/2

CONTENTS

EVALUATION OF TYPHOID VACCINES AND EFFECTIVENESS OF THE VACCINATION

J. Kostrzewski: I. Principles, planning and organization of the study . . . 1
B. Kopacka, A. Słubicka: II. S. typhi antibody pattern in the population of areas selected for the field trial of typhoid vaccines 14
M. Kruczałowa, B. Schillerowa: III. Production and preliminary characterization of the vaccines for the field trial 24
D. Żołnierkowa, H. Przestalska: IV. Preliminary evaluation of reactions to vaccination 35
W. Magdzik, L. Milewska: V. Addendum to the work of D. Żołnierkowa and H. Przestalska: Preliminary evaluation of reactions to vaccination 42
Z. Brzeziński, Z. Gancarz: VI. Reactions to vaccination with vaccines N, P, S and T in adults 48
R. Lutyński: VII. Evaluation of the reactions to vaccination with vaccines N, P, S and T in children and young persons 52
B. Kopacka, A. Słubicka: VIII. Serologic response in persons immunized with various typhoid vaccines 58
J. Ładosz: IX. The use of the phagocytic test for the evaluation of effectiveness of vaccination against typhoid fever (Preliminary report) 66
J. Płachcińska: X. The passive protection test in chick embryos with sera of human beings vaccinated with the N, P, S and T vaccines . . . 70
J. Kostrzewski, J. Płachcińska, A. Grużewski: XI. Evaluation of immunogenic potency of K, N, P, S and T vaccines with the active mouse-protection test with zymosan 74
P. Meisel, F. Rabczyńska, Z. Kudelski: XII. Agglutinating antibodies in the sera of rabbits immunized with typhoid vaccines 85
Z. Kudelski, P. Meisel, F. Rabczyńska: XIII. Evaluation of four typhoid vaccines with the active mouse-protection test 92
Collective Work: XIV. Organization of the centrolled vaccination trial and evaluation of the comparability of the groups of persons vaccinated with particular vaccines 101
J. Szeląg: XV. The epidemic of typhoid fever at Legionowo in 1961 . . . 112
J. Szeląg, Z. Mikulski: XVI. An epidemic of typhoid fever in a quarter of a town included in the field trial area 116
W. Magdzik: XVII. Comparability of the groups of persons selected for vaccination with vaccines K, N, O, P, S and T one year after termination of the vaccination 124
Collective Work: XVIII. The typhoid incidence in the field trial area and the epidemiologic appraisal of the efficacy of the vaccines in the course of the first year after the vaccination 130

JPRS: 24,349

HEALTH

(ZDOROV'E)

1964, VOL. 10, NO. 1

STUDIES IN MEDICAL RESEARCH

- USSR -

Following is a translation of four articles from the Russian-language periodical Zdorov'ye (Health), No 1, Moscow, January 1964. Complete bibliographic information accompanies each article.

TABLE OF CONTENTS

	Page	Russ. Page
Microbes are Working for Man, by A. M. Bezborodov	1	6
Bionics, by V. V. Parin	9	9
Medico-Biological Department Created	14	10
Health Protection Measures at Chemical Plant, by L. F. Safronkov.	16	3

METALLURGIST

A translation of **METALLURG**

Published by
the Board of Governors of Acta Metallurgica.
Distributed by Consultants Bureau

CONSULTANTS BUREAU ENTERPRISES, INC.
227 West 17th Street, New York 11, N. Y.

Numbers 9-10 September-October, 1963

CONTENTS

	PAGE ENG.	PAGE RUSS.
NUMBER 9, 1963		
On the Further Increase of Labor Productivity in Ferrous Metallurgy. S. M. Filippov	385	1
PIG IRON		
Analysis of the Operation of Blast-Furnace Mills of the Pridneprov'e Sovharkhoz Working at Various Levels of Forcing. N. N. Chernov and I. T. Tkach	390	4
Improvement of the Equipment at the Mouth of Blast-Furnaces. M. I. Kuznetsov, I. I. Petrov, and A. I. Soskov	396	9
Toward More Iron. Yu. L. Pamyatnykh	400	13
STEEL		
The Thermal Regime of the Leading Furnace of the MMC. A. G. Trifonov, Yu. B. Snegirev, and E. V. Val'piter	403	16
Each Worker Has His Reserve!	408	21
An Increase in the Output of Converters and the Service Life of their Lining. I. N. Varnavskii, G. N. Kamyshev, N. P. Izotov, and O. P. Bolotov	412	26
ROLLED PRODUCTS		
Experience from Operating the Slabbing Mill at the "Zaporozhstal'" Plant. F. Dolmatov and A. Komanovskii	415	28
An Increase in the Productivity of Labor in the Production of Stainless Steel and Alloys. A. Romanov	417	30
Experience of Rolling Shapes SVP-17 and 27 with an Increased Wall Slope. N. F. Protasov, V. E. Stefanov, V. P. Demchenko, V. A. Shiyan, and P. D. Krishtafovich	419	31
Roll-Pass Design and Rolling of Special Angle No. 18-187A. B. M. Ilyukovich	422	34
Rational Characteristics of Polishing Wheels for Conditioning High-Alloy Steels. A. V. Murdasov and V. K. Pasechnik	423	35
A Device for Compensating Misalignment of the Rolls on a Blooming Mill. L. V. Andreyuk and M. I. Igon'kin	424	36

(Continued)

All rights reserved. No article contained herein may be reproduced for any purpose whatsoever without permission of the publisher. Permission may be obtained from Consultants Bureau Enterprises, Inc., 227 West 17th Street, New York City, United States of America.

CONTENTS (continued)

	PAGE	RUSS. PAGE
NUMBER 10, 1963		
PIG IRON		
Sintering Agglomerate with Varying Content of Anthracite Culm in the Fuel. L. M. Freidin, L. M. Rudakov, and I. I. Gorstein	428	3
The Regime of Relase of Smelting Products and the Processes of Desulfurization in the Hearth. G. A. Volovik, I. G. Polovchenko, and A. N. Chechuro	430	4
Desulfurization of Iron Outside the Furnace. V. A. Dolmatov and A. B. Glovatskii	434	8
Increasing the Durability of the Charging Apparatus. A. I. Dikalov, A. V. Leonova, and D. A. Storozhik	435	10
Improving the Operation of Superpower Blast-Furnaces. A. Gusovskii	438	12
Chronicle, Events, Facts. New Deposits	439	13
STEEL		
Working Open-Hearth Steel in the Ladle with Molten Synthetic Slag. I. E. Podynogin	440	14
Accelerated Teeming of Rimming Steel. A. N. Vasil'ev and S. I. Bogachev	442	16
Preventing Ejections of Metal and Slag from the Converter. M. M. Zin'kovskii	444	18
Increasing the Durability of the Lining of the Troughs Used in the Tapping of Steel. L. G. Kutsenko	445	18
Masonry of Dolomite Blocks for Open-Hearth and Electric Furnaces. A. Lekhtik	446	19
Everything New Born in Labor Goes Into Production. G. V. Plechun	448	20
News Items, Events, Facts	450	23
ROLLED PRODUCTS		
Radio-Frequency Welding of Straight-Seamed Tubes on the 6-32 Mill. A. T. Konyushenko, R. V. Golovkin, V. Ya. Gol'berg, and E. D. Orlov	451	24
Mastering the Production of Economic Types of Welded Tubes. N. Rozenfel'd	453	26
Reconstruction of the Ceramic Recuperators of Soaking Pits. E. A. Kudrin, A. P. Likhoradov, M. S. Kruskal', and A. I. Babanin	455	29
Durability of Long Mandrels on the Continuous 7-Stand Mill. A. V. Nikolenko	458	31
New Method of Drying Wire in Coils. V. I. Donets	458	32
FOR LABOR SAFETY		
The Working Experience of the Labor Protection Commission. A. Izmailov and L. Belotserkovskii	460	34
CREATIVE THINKING		
Life Requires This. A. Ishmatov	462	35
FROM THE HISTORY OF TECHNOLOGY		
Certain Stages in the Development of World Converter Production. V. B. Yakovlev	466	38
NEW BOOKS		
Ways to Reduce the Manufacturing Cost of Rolled Products by B. P. Bel'gol'skii, I. A. Medvedev, and A. L. Starosel'skii. Reviewed by M. Reznikov	469	39

ERRATUM

On page 320 of Issue No. 7, the blank subheading of column 4 in the table should read: "t."

METALLURGIST

A translation of **METALLURG**

Published by
the Board of Governors of Acta Metallurgica.
Distributed by Consultants Bureau

CONSULTANTS BUREAU ENTERPRISES, INC.
227 West 17th Street, New York 11, N. Y.

Numbers 11-12 November-December, 1963

CONTENTS

	PAGE ENG.	PAGE RUSS.
NUMBER 11, 1963		
IRON		
Modernization of the Equipment of the Sintering Plant. D. P. Pritykin	473	4
Improving the Production of Conversion Iron. E. Nolkunov and A. Volovik	476	7
Certain Questions on Blast-Furnace Operation. M. A. Katsnel'son	479	10
STEEL		
Increasing the Production Capacity of Open-Hearth Furnaces. G. L. Gurskii and K. M. Trubetskov	483	13
Fast Top Pouring of Rimming Steel into Molds with Ribbed Sides. E. A. Efimov, V. N. Sapko, V. P. Grebenyuk, É. Ch. Pioro, P. M. Shchastnyi, F. A. Ksenzuk, D.I. Shirinskii, and V. I. Tolstykh	487	17
The Service of Refractories in an Open-Hearth Department. E. I. Koval'chuk	489	19
ROLLED PRODUCTS		
Reconstruction of a Slabbing Mill and Increase in the Production of Slabs. F. M. Dolmatov, F. A. Evtushenko, and Yu. V. Zagorulko	492	22
Experience in the Production of Large Transformer Sheets. V. G. Borisenko	495	24
Increase in the Production of Cold-Bent Rolled Sections. A. A. Naidenov, V. A. Gamerstein	496	25
Reconstruction of a 1680-mm Continuous Cold-Rolling Mill. M. I. Yudin, A. Z. Komandovskii, and N. A. Troshchenkov	498	28
Man of Inquisitive Mind. M. Yanchuk	501	31
Improvement in Product Quality. V. V. Viranovskii and A. A. Podgrodetskii	502	32
Organization of Production Administration at the Plant. E. E. Bermant and V. S. Vasil'chenko	504	34
Planning Production Costs. S. Zlobinskii	506	35
Community Forms of Work at the Plant. V. Litvinenko	507	35
Aleksandr Vasil'evich Leskov	508	37
Chief Metallurgist of the Soviet Union, I. P. Bardin	509	38
News Items, Events, Facts	512	40

(Continued)

All rights reserved. No article contained herein may be reproduced for any purpose whatsoever without permission of the publisher. Permission may be obtained from Consultants Bureau Enterprises, Inc., 227 West 17th Street, New York City, United States of America.

CONTENTS (continued)

	PAGE ENG.	PAGE RUSS.
NUMBER 12, 1963		
The Scope of the Chemical Industry. V. P. Bibishev	516	1
IRON		
Service of the Rotors in the 6500-II-1 Exhausters. N. E. Orlov	518	3
Two Years Experience in the Operation of Blast-Furnaces with the Blowing of High-Sulfur Coal Oil. K. V. Malikov, V. L. Pishvanov, E. I. Andreev, V. I. Ryn'kov, and P. I. Semavin	521	5
On the Design of the Blast-Furnace Well. L. M. Orechkin	526	8
Increasing the Temperature of the Blast. I. L. Kordabnev	528	9
Bakal Siderites—Precious Metallurgical Raw Material. P. Mineev	530	12
STEEL		
Smelting and Continuous Casting of 20 Steel into 280 × 320-mm Billets. O. V. Martynov, V. N. Ustyuzhanin, L. S. Nechaev, and S. M. Gorlov	532	13
Improvements in the Teeming of Killed Steel. P. M. Shchastnyi, V. I. Yakushin, and V. I. Shor	535	15
Work Organization in the Teeming Bay. S. P. Romanenko	537	17
Modernization of the Transformers for the 5-Ton Electric-Arc Furnaces. V. P. Tsukanov	538	18
Production of Semikilled Steels in Indian Plants. S. N. Bystrov	539	19
Energy Losses in Arc Furnaces. E. F. Mazurov	541	20
ROLLED GOODS		
Adoption and Production of 25-m Railway Rails. M. D. Fradin and A. V. Chernova	543	22
Production of Wire Rod from High-Speed Steel. B. I. Zarochentsev and V. K. Likhov	546	24
New Heating Furnace Designs Abroad. I. I. Lever	548	27
Forum of Young Metallurgists. Ya. Brodskii	551	33
NEW BOOKS	554	35
Author Index, 1963	561	
Tables of Contents, 1963	569	

The articles on pages 29-33 (Issue No. 12) of the Russian original have not been translated since they do not contain any information of a technical nature.

METALLURGIST

A translation of METALLURG

Published by
the Board of Governors of Acta Metallurgica.
Distributed by Consultants Bureau

CONSULTANTS BUREAU ENTERPRISES, INC.
227 West 17th Street, New York 11, N. Y.

Numbers 1-2 January-February, 1964

CONTENTS

	PAGE ENG.	PAGE RUSS.
NUMBER 1, 1964		
Development of Ferrous Metallurgy in 1963 and its Main Tasks in 1964-1965. M. A. Pertsev and S. M. Filippov	1	1
PIG IRON		
Experience of Operating Rotary Sinter Screens. L. I. Neshcheret	5	4
Operation of a 2000 m^3 Blast Furnace. A. N. Pokhvisnev, S. L. Sharov, N. K. Zhilkin, Yu. A. Orlov, P. M. Matveev, S. V. Vasil'ev, and E. M. Vizlov	8	7
Effect of the Configuration of the Contact Surface of the Large Bell on the Distribution of Gas Flows. L. Ya. Gavrilyuk and M. Ya. Ostroukhov	12	11
Reconstruction of Slag Car with Replacement of the 11 m^3 Ladle by a 16.5 m^3 Ladle. L. M. Livshits.	13	12
FOR INDUSTRIAL SAFETY		
Reduction of Air Contamination in the Sinter Shop. B. G. Novikov, R. S. Bernshtein, and V. N. Bytkin	16	14
STEEL		
Compressed-Air Blowing of the Open-Hearth Melt with 100% Solid Pig Iron in the Charge. M. Ya. Medzhibozhskii and A. K. Gurov	18	16
Corrective Method of Calculating the Open-Hearth Charge. A. P. Varshavskii	21	19
The Operation of a Single-Channel 400-Ton Open-Hearth Furance. V. I. Peredisty	24	21
Service of the Basic Thrust-Suspension Arch in the Lower Structure of the Open-Hearth Fumace. Yu. A. Kamenskii and G. K. Toms	27	24
ROLLED IRON		
Rolling No. 16 Channels by the Method of Gradual Bending. N. F. Protasov, V. E. Stefanov, V. A. Shiyan, V. P. Demchenko, and P. D. Krishtafovich	30	27
Rolls for Rolling Steel with Negative Tolerances. B. M. Ilyukovich	33	30
Reconstruction of the Continuous Heating Furnace. Yu. V. Pavlov and N. I. Kukatov	34	31

(Continued)

All rights reserved. No article contained herein may be reproduced for any purpose whatsoever without permission of the publisher. Permission may be obtained from Consultants Bureau Enterprises, Inc., 227 West 17th Street, New York City, United States of America.

CONTENTS (continued)

	PAGE ENG.	PAGE RUSS.
Magnetic Pulleys for Transporting Strip and Pipe. S. A. Andreev	36	32
Automation in the Pipe Industry	37	33
Closed Blades for Hot Cutting of Round Billets. V. V. Shveikin, S. I. Orlov, M. M. Kaufman, M. F. Stoletnii, É. O. Nodev, V. A. Stern, and V. A. Orlov	39	35
Organization of Production of Steel Strip with a Polychlorvinyl Coating. A. G. Bogomazov and R. E. Mirkina	40	36
FROM ABROAD		
Molybdenum-Disulfide Lubricant. A. T. Demchenko and A. I. Evseev	42	37
OUTSTANDING METALLURGISTS		
The Russian Metallurgist K. P. Polenov	44	38
NUMBER 2, 1964		
Technological Progress in Ferrous Metallurgy in the RSFSR During 1964-1965. N. I. Sheftel'	48	1
Regulation of Blast-Furnace Operation from Above. V. G. Kaishauri and Sh. F. Khoshtariya	51	3
On the Construction of the Hearth and Well of the Blast-Furnace. A Contribution to the Discussion on the Design and Durability of the Hearth and Well of Blast-Furnaces. B. N. Zherebin	54	5
Replacing the Charging Apparatus on Blast-Furnaces of 2000-m^3 Capacity. D. T. Veklichev and Yu. I. Soshinskii	57	8
NEWS, EVENTS, FACTS		
Flow Production of Steel	60	11
STEEL		
Experience with the Continuous Casting of Killed Carbon Steel in Wide Slabs. B. N. Katomin, M. G. Chigrinov, N. F. Kanareikin, and A. G. Zubarev	62	12
Increasing the Durability of the Arches of Open-Hearth Furnaces. G. I. Popov	64	14
The Shaft Furnace of the Chelyabinsk Electrometallurgical Combine. N. P. Mironov	67	16
A New Design of the Ribbed Arch with Reinforced Suspension. G. I. Antonov, V. V. Kosogolov, V. P. Nedosvitii, N. I. Vinogradov, M. M. Khil'ko, and M. I. Molchanova	69	18
Conference on the Theory and Practice of Intensification of Steel Production in Converters and Open-Hearth Furnaces. N. S. Mikhailets	72	21
ROLLED PRODUCTS		
Improvement in the Quality of Railroad Rails in the USSR. B. S. Shapiro	74	24
Reconstruction of the Roller-Hearth Continuous Furnace of the 2800 Mill. V. I. Rospasienko	77	26
FOR INDUSTRIAL SAFETY		
Improving the Atmosphere in the Rolling Industry. O. I. Zholondkovskii	80	29
FROM ABROAD		
New Five-Zone Continuous Furnace. I. I. Lever	83	30
The Experience of the Best Should Become the Property of All. I. I. Sidorov	84	32
SCHOOL OF ADVANCED EXPERIENCE		
Improvement in the Methods of Hard Surfacing Rolls and Equipment Parts. A. G. Bardash	88	33
Marker for Square Billets. E. I. Korenev	89	34

CONTENTS (continued)

	PAGE ENG.	PAGE RUSS.
OUTSTANDING SOVIET METALLURGISTS		
On the 100th Anniversary of V. E. Grum-Grzhimailo. A. S. Fedorov	90	36
Third Congress of the Scientific and Technical Society of Ferrous Metallurgy	93	38
NEWS, EVENTS, FACTS		
Best in the World	95	39
Strip with a Plastic Coating	95	39
Mill under Construction	95	39

NOTE

Articles beginning on pages 26 and 39 in MET-1 and on pages 10, 22, and 35 in MET-2 in the original Russian have been omitted in this translation because they are not of scientific interest.

THE PHYSIOLOGICAL ROLE OF ACETYLCHOLINE AND THE SEARCH FOR NEW MEDICINAL DRUGS

(FIZIOLOGICHESKAYA ROL' ATSETILKHOLINA I IZYSKANIE NOVYKH LEKARSTVENNYKH VESHCHEST

- USSR -

Leningrad, 1957

Following is a complete translation of the Russian-language anthology Fiziologicheskaya rol' atsetilkholina i izyskaniye novykh lekarstvennykh veshchestv (The Physiological Role of Acetylcholine and the Search for New Medicinal Drugs), edited by Professor M. Ya. Mikhel'son, and published by the Leningrad Medical Institute imeni I. P. Pavlov, Leningrad, 1957, pages 1-462.

TABLE OF CONTENTS

	Page
FOREWORD, by L. A. Orbeli	1
INTRODUCTION, by M. Ya. Mikhel'son	3
PART I. Effect of Choline-Positive and Choline-Negative Substances on the Central Nervous System	14
Physiological Significance of Acetylcholine in Human and Animal Higher Nervous Activity Role of Acetylcholine in Higher Nervous Activity, by M. Ya. Mikhel'son ...	14
Antagonistic Effect of Cholinolytics and Anticholinesterases on Conditioned Reflexes of Dogs, by E. K. Rozhkova	22
Antagonistic Effect of Cholinolytics and Anticholinesterases on Conditioned Reflexes of White Rats, by N. V. Savateev	29
Effect of Anticholinesterases and Cholinolytics on the Rate of Conditioned-Reflex Formation and on Extinctive and Differential Inhibition, by N. V. Savateev	38
Effect of Cholinolytics Containing Tertiary and Quaternary Nitrogen on Higher Nervous Activity in Rats and Mice, by N. V. Savateev	43

Effect of Pentaphene, Nicotine, and Arecoline and Their Methiodides on the Rate of Conditioned-Reflex Formation in White Mice, by N. Ya. Lukomsyaya 55

Effect of Several Cholinolytic Substances and Their Alkyl Iodides on Conditioned Activity in Dogs, by N. Ya. Lukomskaya 63

Experimental Therapy of Status Convulsivus Search for Antispasmodics of Cholinolytic Action, by E. V. Zeimal' 70

Use of Cholinolytic Agents to Prevent Nicotinic Spasms in Rabbits, by Ya. R. Savinskii 99

Arecolinic and Nikethamide Spasms in Guinea Pigs, by V. S. Artem'ev 104

Use of Cholinolytics to Prevent Arecolinic Tremor in Mice, by I. A. Sokolova 116

Evaluation of the Antispasmodic Activity of Some New Drugs on the Basis of Their Capacity to Prevent Electro-Shock Spasms in Mice, by V. E. Smirnov 120

Testing of Drugs with Central Cholinolytic Effect on Some Diseases of Man

Use of Pentaphene and Diphasin in the Treatment of Some Diseases of the Nervous System, by N. N. Anosov 125

Experimental Prevention and Treatment of Seasickness with Pentaphene and Diphasin, by R. A. Okunev 132

The Effect of Certain Agents on the Cholinesterase Activity of Brain and Muscle

Histochemical Determination of True and Pseudo Cholinesterases in Mouse Tissues in the Presence of Tetraethyl Lead Poisoning, by Ya. S. Smusin 141

Histochemical Determination of Cholinesterase Activity in Experimental Narcotic Poisoning, by Ya. S. Smusin 147

Cholinesterase Inhibition in the Brain and Muscles of White Mice Under the Influence of Isomercaptophos and Its Methylsulfomethylate, by Ya. S. Smusin 155

PART II. **The Effect of Anticholinergic and Anticholinesterastic Agents on Internal Organs and Vegetative Ganglia** 163

General Pharmacological Study of the Peripheral Action of Anticholinergic Agents

The Action of a Number of New Anticholinergic Drugs on Peripheral Cholinoreactive Systems, by K. G. Tsirk 163

The Antagonistic Effect of Anticholinergic and Anticholinesterase Agents on Conduction in the Superior Cervical Sympathetic Ganglion, by K. G. Tsirk 181

Effect of a Number of Anticholinergic Agents on Contracture of Isolated Cat Intestine, Induced by Acetylcholine and Barium Chloride, by T. N. Korchinskaya 189

The Effect of a Number of Anticholinergic Agents on Isolated Frog Heart , by N. Ya. Lukomskaya 202

Action of Proserine and New Cholinolytic Compounds on Contractions of the Uterus in a Guinea Pig, by Z. A. Drozdova 213

Experimental Therapy of a Bronchospasm
Methods of recording Experimental Bronchospasm , by E. P. Uspenskaya 219

Comparative Evaluation of Methods of Recording Experimental Bronchospasm in a Cat with the Help of a Piston Recorder and a Mercury Manometer, by L. G. Magazanik 231

The Mechanism of a Proserine Bronchospasm , by E. P. Uspenskaya ... 237

Experimental Therapy of a Proserine Bronchospasm by New Cholinolytic Compounds, by E. P. Uspenskaya 245

Experimental Therapy of Proserine Bronchospasm by Compounds of the Alphamethyldiphasine Group, by L. G. Magazanik 258

The Effect of Some Narcotics on Proserine Bronchospasm , by L. G. Magazanik 261

Treatment of an Armine Bronchospasm in a Cat with Cholinolytic Compounds , by I. V. Semenov 270

Comparison of the Structure of a Series of New Phosphoroorganic Compounds with Their Anticholinesterase Action and Their Ability to Cause Bronchospasm, by I. V. Semenov...280

Clinical Testing of Certain Cholinolytic and Anticholinesterase Compounds
Clinical Evaluation of Pentaphene in Treating Patients with Bronchial Asthma , by E. P. Uspenskaya 291

A Test of the Treatment of Ulcers with Pentaphene, by N. M. Davidovskii 307

The Effect of the New Anticholinergic Agents -- Pentaphene and Merpanit -- on a Healthy Person , by A. R. Luzhis 313

The Use of Pentaphene and Merpanit in Ulcerative Disorders, by A. R. Luzhis 326

The Use of Pentaphene and Merpanit for Certain Internal Diseases, by K. V. Temirova 343

Experimental Treatment of Angina Pectoris Patients with the Anticholinergic Drug Ganglieron, by N. M. Davidovskii 353

Experimental Use of Merpanit for Ulcers, by R. F. Anosova 362

Some Results of the Use of Proserine in the Obstetric Clinic, by Z. A. Drozdova 367

PART III. **Research in the Field of Curariform Drugs and Respiratory Stimulants in the Aminoalkyl Ester Group of Dicarboxylic Acids** 383

Ditiline -- A New Compound for Easily Controllable Relaxation of Muscles, by P. A. Kupriyanov ... 383

The Relationship Between the Structures and the Effects of Aminoalkyl Esters of Aliphatic Dicarboxylic Acids, by R. S. Rybolovlev 390

Central and Peripheral Effect of Some Cholinomimetric Substances, Containing Tertiary Nitrogen and Their Iodomethylates, by E. V. Zeimal' ... 421

Noneffectiveness of Lobeline and Cytitone During Subcutaneous and Intramuscular Injections, by A. M. Gorelik 452

A Search for Reflex Respiration Stimulants and Evaluation of Their Effects on Man During Different Methods of Injection, by M. Ya. Mikhel'son ... 468

Determination of the Activity of Pseudocholinesterase in the Presence of True Cholinesterase From the Rate of Hydrolysis of Dicholine Ester of Suberic Acid (Corconium) by N. K. Fruyentov 502

Controllable Muscle Relaxation Through Injection of Ditiline by Different Methods, by A. F. Danilov 517

Effect of Various Drugs on Ditiline Effect, by A. F. Danilov 551

Antagonism of Adrenalin with Respect to Ditiline and Other Curariform Preparations, by A. F. Danilov 564

Experience With the Use of Ditiline in Surgery , by A. F. Danilov 575
A Relationship Between the Chemical Structure and Pharmacological Effects of Certain Cholinolytic, Cholinomimetic and Anticholinesterase Substances , by E. V. Zeimal' ... 587
BIBLIOGRAPHY 616

PROBLEMS OF COSMOGONY

Vol I

- USSR -

Following is a complete translation of the Russian-language journal Voprosy Kosmogonii (Problems of Cosmogony), Moscow, Vol 1, 1952, pages 1 - 285. The names of the authors accompany each section or individual article.

TABLE OF CONTENTS

	Page
Advances and Problems of Soviet Cosmogony (Foreword)	1
On the Problem of the Density and Compressibility of the Earth's Mantle, by V. A. Magnitskii	11
On the Origin of the Solar System, by V. A. Krat	31
The Nature and Possible Origin of the Meteorites, Zodiacal Light, and the Asteroids, by V. G. Fesenkov	89
On the Evolution of Unstable Stars, by B. A. Vorontsov-Vel'yaminov	128
On the Evolution of Unstable Stars: An Answer to the Communication of B. A. Vorontsov-Vel'yaminov, by E. R. Mustel'	141
On the Problem of the Kinematics of the Metagalaxy, by K. F. Ogorodnikov	147
On the Problem of Stellar Associations, by P. N. Kholopov	189
A New Determination of the Mass of Mercury, by G. A. Chebotarev	228

Table of Contents (Cont'd) Page

"Stability of the Universe" or Stability of the Bourgeois Structure? , by Emri Shattsman 236

Reviews of Papers on Cosmogony 240

Abstracts of Papers on Cosmogony 261

News Items of Interest to Cosmogonists 272

PROBLEMS OF COSMOGONY
(VOPROSY KOSMOGONII)
- USSR -
1954, VOL. 2

Following is the complete translation of a Russian-language collection of articles entitled Voprosy kosmogonii (Problems of Cosmogony), Volume II, published by the Academy of Sciences USSR, Moscow, 1954, pages 1-363, and signed to the press on 29 January 1954. The names of the authors accompany each section or individual article.

TABLE OF CONTENTS

	Page
Articles	
HYPOTHESIS OF STAR FORMATION, by A. I. Lebedinskii	1
Chapter I - Hypothesis of the Gravitational Condensation and Evolution of Galaxies	5
Chapter II - Evolution and Development of Stars	40
Chapter III - Stellar System	72
Chapter IV - Maximum Possible Star Masses	98
Chapter V - Gravitational Condensation of Diffuse Matter and Stellar Gas	118
EVOLUTION OF STELLAR SYSTEMS, by L. E. Gurevich	158
Introduction - Formation and Evolution of Stellar Systems	158
Chapter I - Equilibrium of a Rotating Gravitational System	162

Chapter II - The Mechanism Leading to the Evolution of the Form of the Galaxy 179

Chapter III - Rotation of Stars and Their Magnetic Fields 216

Chapter IV - Formation of the Elements 231

SEPARATION OF THE MAIN SEQUENCE INTO TWO PARTS, by P. P. Parenago 277

THE INFLUENCE OF STELLAR ENCOUNTERS ON THE "ECCENTRICITY - SEMIMAJOR AXIS" CORRELATION , by S. A. Kaplan 287

Surveys

THE INTERSTELLAR MEDIUM. I: DISTRIBUTION IN SPACE, MOTION, AND PHYSICAL PROPERTIES OF THE INTERSTELLAR MATTER, by V. S. Sifronov 291

Reviews

REVIEW OF THE BOOK "THE SOLAR CORONA. I: OBSERVATION OF THE CORONA DURING 1939-1949 (Die Sonnenkorona. I: Beobachtungen der Korona 1939-1949) by M. Waldmeier; Publisher: Birkhaser, Basel, 1951, 270 pages 332

Abstracts and Author's Abstracts

The Cosmogonic Theory of O. Yu. Shmidt and the Structure of the Earth 336

The Influence of Radioactive Decay on the Earth's Heat Regime 337

Significance of Radioactivity in Geophysics - Thermal History of the Earth 339

The Temperature Gradient on the Earth's Surface and Radioactive Heat Generation in the Earth's Crust With Regard to Half-Life Periods (Der Temperaturgradient an der Erdoberfläche und die radioaktive Wärmeerzeugung in der Erdkruste bei Berücksichtigung der Halbwertszeiten) 340

The Orbit and Mass of the Companion of the Double Star 61 Cyg 340

Characteristics of the Motion of Stars of Spectral Classes O and B and the Expansion of Stellar Associations 341

Page

On the Distribution of Interstellar Matter 341

Certain Structural Peculiarities of Gaseous Nebulae and Their Relationship to Stars 342

The Configuration and Spatial Orientation of Dark Nebulae 343

The Size of Interstellar Clouds 344

On the Abundance of Large Clouds and Interstellar Matter (Sur l'abondance des grands nuages et matière interstellaire) 345

A Study of Absorption in NGC 5159 345

Spacial Orientation and Direction of Rotation of the Spiral Nebula NGC 2146 (Orientation spatiale et sens de rotation de la nebuleuse spirale NGC 2146) 346

The Run of the Spiral Arms and the Direction of Rotation in NGC 4594 347

The Coma Cluster of Galaxies 348

Current Events

CONFERENCE ON PROBLEMS OF STELLAR COSMOGONY, by V. S. Safronov 350

CREATION OF A COMMISSION ON COSMOGONY OF THE DIVISION OF PHYSICAL AND MATHEMATICAL SCIENCES OF THE ACADEMY OF SCIENCES USSR, by A. G. Masevich 353

SYMPOSIUM ON PROBLEMS OF STELLAR EVOLUTION AT THE EIGHTH CONGRESS OF THE INTERNATIONAL ASTRONOMICAL UNION, SEPTEMBER 1952, by A. G. Masevich 355

ACTIVITIES OF THE COMMISSION ON THE ABSOLUTE GEOLOGICAL FORMATIONS, by B. Yu. Levin 375

FOURTH CONFERENCE ON METEORITES, by B. Yu. Levin. 377

PROBLEMS OF COSMOGONY
(VOPROSY KOSMOGONII)

1957, VOL. 5
- USSR -

Following is the complete translation of a Russian-language collection of articles entitled Voprosy Kosmogonii (Problems of Cosmogony), Volume V, published by the Academy of Sciences USSR, Moscow, 1957, pages 1-299, and signed to the press on 22 April 1957. The names of the authors accompany each section or individual article.

TABLE OF CONTENTS

	Page
Articles	
Academician Grigority Abramovich Shayn	1
Academician Otto Yul'yevich Shmidt	4
Explosions of Meteors as a Factor in the Development of the Lunar Surface , by N. N. Sytinskaya	8
The Hypothesis of Turbulence in the Protoplanetary Cloud, by V. S. Safronov ...	16
The Origin of the Earth Group of Planets , by V. A. Krat	39
Evolution of the Stars in Diffuse Stellar Clusters and Stellar Associations, by A. G. Masevich	47
Central and Peripheral Theory of Cepheid Pulsations, by S. A. Zhevakin	73
On the Spatial Amplitude Distribution in a Pulsating Star, by D. A. Frank-Kamenetskii	108
Main Sequence in the Spectrum-Luminosity Diagram and its Theoretical Interpretation, by A. G. Masevich	135

Problem of the Origin of Elements, by P. G. Parkhomenko 166

Maintenance of Equilibrium Distributions for Intermediate Atoms, by P. G. Parkhomenko 177

Possibility of the Formation of Chemical Elements Under the Influence of Cosmic Rays, by V. A. Petukhov 181

Surveys

The Active Regions of the Solar Corona, by G. D. Ivanov-Kholodnii 185

Current Events

Fifth Conference on Problems of Cosmogony, by M. I. Fradkin 229

Symposium of Radioastronomy, by S. B. Pikel'ner 258

Symposium on Galactic Structure, by E. B. Kostyakova 261

Symposium on Variable Stars, by P. N. Kholpov 264

Conference on Physics of Corpuscular Streams Emanating from the Sun and on Study of Their Effect Upon the Upper Atmosphere and Magnetic Field of the Earth, by S. M. Poloskov 267

Report of Professor Kh. Al'ven on the Origin of the Solar System, by V. S. Safronov. 274

PROBLEMS OF COSMOGONY

Volume VII

- USSR -

Following is the complete translation of a Russian-language collection of articles entitled Voprosy Kosmogonii (Problems of Cosmogony), Volume VII, published by the Academy of Sciences USSR, Moscow, 1960, pages 1-383, and signed to the press on 15 July 1960. The names of the authors accompany each section or individual article.

TABLE OF CONTENTS

	Page
PREFACE	1
SYMPOSIUM ON THE FORMATION OF THE EARTH AND THE PLANETS	
Questions Associated with the Problem of the Origin of the Solar System, by H. Jeffreys	2
The Formation of a Protoplanet, by E. L. Ruskol	5
The Origin of the Solar Nebula, by F. Hoyle	14
On the Hydrogen Content on the Major Planets, by A. I. Lebedinskii	56
Distances and Masses of Planets, by B. Yu. Levin	60
Accumulation of Planets of the Earth Group, by V. S. Safronov	63
Process of Formation of Planets in the Earth Group, by V. A. Krat	69
The Origin of Meteorites Viewed in Connection with the Origin of the Solar System, by H. G. Urei	71
The Abundance of the Elements, by H. C. Urei ...	74

Remarks on the Formation of the Solar System from the Point of View of Nucleogenesis, by A. G. W. Cameron 91

The Lunar Surface and the Early Stages of the Development of the Solar System, by J. Kuiper 94

Remarks on Comets, Meteors and Planetary Evolution, by F. Whipple 96

ARTICLES

Origin of the Earth, by V. A. Krat 100

The Formation of Protoplanetary Dust Clouds, by V. S. Safronov 120

Behavior of the Hydrosphere Under Martian Conditions and its Observed Manifestations, by V. D. Davydov 146

Radiants of Meteor Streams Based on Observations in China in the First Millenium of Our Era, by I. S. Astapovich 167

Corpuscular Radiation of the Sun and Zodiacal Light, by G. M. Nikol'skii 180

On the Chemical Composition of Stars, by A. A. Boyarchuk 208

The Envelopes of Be Stars, by A. A. Boyarchuk 223

The Spectrum-Luminosity Diagram and Some Problems of the Evolution of Hot Stars, by I. M. Kopylov 251

Spectroscopic Investigations of Short-Period Pulsating Stars, by W. Iwanowska 290

Theoretical Principles of the Hypothesis of the Origin of Double Stars by Division, by R. A. Lyttleton 306

Further Remarks on the Central and Peripheral Theories of Stellar Pulsations, by S. A. Zhevakin 316

Polarization of the Radiation of Nebulae, by E. E. Khachikyan 327

CURRENT NEWS

Plenary Meeting of the Commission on the Physics of Stars and Nebulae, by I. N. Minin 368

Conference on Problems of the Origin and Evolution of Comets and Other Small Bodies of the Solar System, by S. K. Vsekhsvyatskii 371

PROBLEMS OF PHILOSOPHY

(VOPROSY FILOSOFII)

1963, VOL. 17, NO. 12

PROBLEMS IN COMPLEX SYSTEMS, CYBERNETICS, AND ENGINEERING AND SOCIAL PSYCHOLOGY

[Following are translations of four articles in the Russian-language journal Voprosy Filosofii (Problems of Philosophy), Moscow, Vol XVII, No 12, 1963. Complete bibliographical information accompanies each article.]

Table of Contents

	Page	Russ. Page
Modeling of Information and Programs in Complex Systems, by N. M. Amosov	1	26
The Problem Requires Further Collective Investigation, by B. S. Ukraintsev (book review)	15	160
Philosophical Investigations in the Problems of Engineering Psychology, by L. B. Itel'son (book review)	25	165
Some Timely Problems in Social Psychology, by V. N. Kolbanovskii.	31	16

PROCEEDINGS OF SEMINAR ON MATHEMATICAL SIMULATION METHODS AND ELECTRIC CIRCUIT THEORIES

MATHEMATICAL SIMULATION AND ELECTRIC CIRCUITS

- USSR -

[Following is a translation of the book Matematicheskoye Modeliroveniye i Elektricheskiye Tsepi; Trudy Seminara po Metodam Matemat.cheskogo Modelirovaniya i Teorii Elektricheskikh Tsepei (English version above), No 1, Kiev, 1963, pp 1-247. Bibliographic information given with individual articles.]

Table of Contents

	Page	Russia Page
Pukhov, G. Ye. Reversible Computer Elements	1	3
Pukhov, G. Ye. On the Possibility of Building a Control Computer Using Reversible Computer Elements	7	8
Zhuk, K. D. A Reversible Functional Converter	13	12
Zhuk, K. D. On the Design of Multi-Dial Tracking Systems Using Reversible Decision Elements	20	17
Pukhov, G. Ye. The Use of Quasinegative Resistances for Improving the Mode of Operation of Amplifiers in a Reversible Model of Linear Equations	33	26
Tokareva, O. N. Some Problems in Solving Tasks of Linear Programming	36	28
Vasil'yev, V. V. On the Stability of Operation of Reversible Linear Converters in a Complex Linear DC Circuit	42	33
Pukhov, G. Ye. The Problem of Simulating Differential Equations With Boundary Conditions on Electronic Analog Computers	47	37
Verlan', A. F. The Use of Storage Devices in Solving Problems on Analog Computers	51	41
Ostapenko, V. N. On Principally Solvable Problems on MPT-9 Type Electronic Integrators	56	45

	Page	Russian Page
Grezdov, G. I. Electrical Simulation of One Nonlinear Problem....	73	58
Grezdov, G. I. and Kosmach, Yu. P. Calculating the Design of a Spherical Shell on Analog Computers By Means of the "Iterator" Electronic Machine.....	80	64
Levin, A. G. One Method of Electrical Simulation of The Oscillation Equation of a Beam.....	88	73
Vasil'yev, V. V. The Use of the Method of the Determinant Unknowns in Simulating Spatial Free Frames With Mutually Perpendicular Rods.....	93	79
Zhivov, A. N. A Method of Solving Certain Frame Systems on an EMSS-7 Electrical Model.....	103	87
Luzhin, O. V. Electrical Simulation of Flexible Beams of Variable Cross Section.....	110	92
Tozoni, O. V. Simulation of the Field of Currents in the Network of Underground Structures.....	116	97
Kolesnikov, E. V. On the Inversion of the Boundary Conditions of the Neumann and Dirichlet Problems for the Laplace Equation.....	141	114
Nitsetskiy, L. V. Simplified Artificial Extension of Circular Models for Solving the Laplace Equation in Unbounded Regions....	169	136
Chaduneli, A. Sh. Investigation of the Possibilities of One Universal Group Operation Applicable to Small Digital Computers.	184	147
Pashko, D. I. A Complex of Structures for Research Work in the Field of Simulation.....	202	160
Kalyayev, A. V. Digital Integrators.....	219	172
Maksimovich, N. G. On One Method of Solving a System of Algebraic Equations as Applied to the Design of Electric Circuits	244	191
Borkovskiy, B. A. The Use of a Complex Method of Calculating the Transients in Electrical Circuits with Distributed Parameters, Containing Lumped Nonlinear Elements.....	258	201
Bondarenko, V. M. On the Determination of the Condition of Circuits with Controllable Nonlinear Resistances.....	266	208
Pampuro, V. I. An Efficient Method of Analizing Linear Circuits..	274	214
Tyutin, A. A. Determination and Use of the Secondary Parameters in the Subcircuit Method.....	291	226
Sukhomlinov, M. M. and Vykhovanets, V. I. Conversion of Decimal Integers into Binary Ones and of a Binary Fraction into a Decimal One.....	309	238

JPRS: 24,372

SCIENTIA

(K'O HSUEH T'UNG PAO)

1964, NO. 1

TRANSLATIONS ON COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY

No. 81

This serial publication contains summaries or translations (as indicated) of selected articles on Communist China's science and technology, on the specific subjects reflected in the table of contents. Complete bibliographic information accompanies each article.

Table of Contents

	Page	Orig. Page
Light and Spectroscopic Properties of Inorganic Vitreous Rare Earth Oxides, by Kan Fu-hai ...	1	52
Physical Research of Irradiative Radiation Emanation of ND^{3+} Activated Inorganic Vitreous States, by Kan Fu-hsi ...	7	54
Enriched Tantalum Calcite, by T'ung Wu ...	13	71
Activity of a $PbO-BiO_{1.5}$ Fused Body, by Tsou Yuan-hsi.	20	76

SOVIET MATHEMATICS

Доклады Академии Наук СССР

Tom 154 Nos. 1–6, 1964

Vol. 5, No. 1 January–February 1964

TABLE OF CONTENTS

	Russian page nos.	Page
Van Šen-van (Wang Sheng-wang) *On the solutions of the Hammerstein integral equations*	(9–12)	1
Vinogradov, A. I. *Estimates from below by the sieve process in algebraic number fields*	(13–15)	6
Vinogradov, V. S. *An analog of the Cauchy-Riemann system in four-dimensional space*	(16–19)	10
Glazunov, N. I. *Tensor fields on compact homogeneous spaces admitting a spherical model*	(20–22)	14
Dektjarev, I. M. *ϕ-complete spaces metrized over a half-field*	(23–25)	17
Kackova, O. N. and Čuškin, P. I. *A scheme for the numerical method of characteristics*	(26–29)	20
Kreĭn, S. G. and Petunin, Ju. I. *The concept of a minimum scale of spaces*	(30–33)	24
Lavrik, A. F. *Sums over characters of powers of the absolute values of Dirichlet L-functions in the critical strip*	(34–37)	28
Lunc, G. L. *Singularities of Taylor-Dirichlet series*	(38–40)	32
Ljubič, Ju. I. *Conditions for the solvability of the abstract Cauchy problem*	(41–44)	35
Motornyĭ, V. P. *An inequality for the moduli of smoothness of a periodic function with bounded derivative*	(45–47)	39
Muhtarov, H. Š. *A class of nonlinear singular equations with a Hilbert kernel*	(48–50)	42
Poljakov, V. *Regularity, products and spectra of proximity spaces*	(51–54)	45
Proizvolov, V. V. *The cardinality of the base of an H-closed space*	(55–56)	50
Fel'dman, I. A. *Asymptotic behavior of solutions of some systems of integral equations*	(57–60)	52
Švarc, A. S. *The homotopic topology of Banach spaces*	(61–63)	57
Anučina, N. N. *Difference schemes for solving the Cauchy problem for symmetric hyperbolic systems*	(247–250)	60
Arsen'ev, A. A. *The Fourier transform of a slowly decreasing function*	(251–253)	65
Gasymov, M. G. *The inverse problem for the Sturm-Liouville equation*	(254–257)	68
Kapilevič, M. B. *Approximation of singular solutions of the Čaplygin equation*	(258–261)	72
Marušin, M. N. *Applicability of a limit theorem of order $p > 0$ to an inhomogeneous Markov chain with two states*	(262–263)	76
Milin, I. M. *The area method in the theory of univalent functions*	(264–267)	78
Pliss, V. A. *Stability of motion in the borderline case of two zero roots*	(268–270)	82
Sandakova, N. N. *A proof of analogues of the theorems of Minkowski and Voronoĭ for three-dimensional isogonal partitions corresponding to the group of translations*	(271–273)	85
Timan, A. F. *A problem of approximation theory related to the superposition of functions*	(274–275)	89

	Russian page nos.	Page
Ševčenko, V. I. *On a boundary value problem for a vector holomorphic in a half-space*	(276–278)	92
Barban, M. B. and Vinogradov, A. I. *Number-theoretic basis of the probabilistic theory of numbers*	(495–496)	96
Berman, G. H. *Functors in the category of locally convex spaces*	(497–499)	99
Gol'dman, M. A. and Kračkovskiĭ, S. N. *Invariance of certain spaces connected with the operator* $A - \lambda I$	(500–502)	102
Gončar, A. A. *Approximation of continuous functions by harmonic functions*	(503–506)	105
Martin Grindlinger (Martin Greendlinger) *Solutions of the word problem for a class of groups by means of Dehn's algorithm, and of the conjugacy problem by means of a generalization of Dehn's algorithm*	(507–509)	110
Krivov, V. V. *Some properties of moduli in space*	(510–513)	113
Linnik, Ju. V. *Remarks on the Fisher-Welch-Wald test*	(514–516)	118
Mikenberg, A. M. *Complete systems of nondecreasing general recursive functions*	(517–519)	121
Nečaev, V. I. *A best possible estimate of trigonometric sums for recurrent functions with nonconstant coefficients*	(520–522)	124
Ovčinnikov, I. S. and Suvorov, G. D. *Transformations of the Dirichlet integral and space mappings*	(523–526)	127
Petunin, Ju. I. *Conjugate Banach spaces containing subspaces of zero characteristic*	(527–529)	131
Portnov, V. R. *A theorem on the density of finite functions in the* $L^{(m)}_{p,a}(E_n)$ *space*	(530–533)	134
Prilepko, A. I. *On the converse of the problem of a metaharmonic potential*	(534–537)	138
Ševrin, L. N. *Projectivities of semilattices*	(538–541)	142
Šunkov, V. P. *Groups decomposable into a uniform product of their p-subgroups*	(542–544)	147
Barban, M. B.; Linnik, Ju. V. and Čudakov, N. G. *Distribution of primes in short progressions* mod p^n	(751–753)	150
Bondarenko, P. S. *Computation algorithms for approximate solution of operator equations*	(754–756)	153
Gal'pern, S. A. and Kondrašov, V. E. *The Cauchy problem for differential operators which are factorable into a product of wave operators*	(757–759)	156
Ignatenko, V. V. *Power expansion for one-dimensional boundary value problems*	(760–762)	160
Nečiporuk, Ě. I. *Synthesis of circuits from threshold elements*	(763–766)	163
Pasynkov, B. *Partial topological products*	(767–770)	167
Petrov, V. V. *Probabilities of large deviations of sums of independent equally distributed random variables*	(771–774)	171
Rogožin, V. S. *Some new integral representations of analytic functions*	(775–778)	175
Sinanjan, S. O. *On the possibility of extending the uniqueness property of analytic functions to closed nowhere dense sets*	(779–782)	179
Sprindžuk, V. G. *On a conjecture of Mahler*	(783–786)	183
Hudjaev, S. I. *Boundary problems for certain quasilinear elliptic equations*	(787–790)	188
Čumakin, M. E. *Generalized resolvents of an isometric operator*	(791–794)	193

	Russian page nos.	Page
Šalaevskiĭ, O. V. *On the existence of similar tests for the Behrens-Fisher problem*	(795–797)	197
Štern, A. I. *Completely irreducible representations of the second order real unimodular group*	(798–802)	201
Borok, V. M. and Myškis, A. D. *Solvability of difference equations throughout space*	(1007–1010)	205
Glazman, I. M. *Gradient relaxation for nonquadratic functionals*	(1011–1014)	210
Zarelua, A. *A universal bicompact space with given weight and dimension*	(1015–1018)	214
Zaharjan, V. S. *On a uniqueness theorem*	(1019–1022)	219
Kreĭn, M. G. *A new application of the fixed-point principle in the theory of operators on a space with indefinite metric*	(1023–1026)	224
Kužel′, A. V. *Non-selfadjoint operators generated by Jacobian matrices*	(1027–1029)	229
Ljance, V. È. *A non-selfadjoint second-order differential operator on a half-axis*	(1030–1033)	232
Macaev, V. I. *A method for the estimation of the resolvents of non-selfadjoint operators*	(1034–1037)	236
Ovčarenko, I. E. *An application of the method of directing functionals in the theory of precommuting operators*	(1038–1041)	241
Pasynkov, B. *On universal bicompacta of given weight and dimension*	(1042–1043)	245
Pliss, V. A. *The reduction principle in the theory of stability of motion*	(1044–1046)	247
Toponogov, V. A. *Estimate of the length of a closed geodesic in a compact Riemann space of positive curvature*	(1047–1049)	251
Govorov, N. V. *The Riemann boundary value problem with an infinite index*	(1247–1249)	255
Kordzadze, R. A. *Fundamental theorems for singular integral equations with a shift*	(1250–1253)	258
Korobeĭnik, Ju. F. *The properties of the limit function of a sequence of linear aggregates*	(1254–1257)	262
Kreĭn, M. G. and Langer, G. K. *A contribution to the theory of quadratic pencils of self-adjoint operators*	(1258–1261)	266
Melent′ev, B. V. *On a boundary value problem for equations of mixed type*	(1262–1265)	270
Perov, A. I. *n-Dimensional linear differential equations with constant coefficients*	(1266–1269)	274
Petrov, V. V. *One-sided inequalities of Čebyšev type*	(1270–1272)	279
Protasov, V. I. *Solutions of linear equations of infinite order in generalized derivatives*	(1273–1275)	282
P′janzina, L. Ja. *Approximation of solutions of boundary value problems for parabolic and hyperbolic equations by means of solutions of the Cauchy problem*	(1276–1279)	285
Reĭzin′, L. È. *Homeomorphism of systems of differential equations in the neighborhood of closed trajectories*	(1280–1282)	290
Sadovskiĭ, L. E. *On the definability by lattices of a locally nilpotent torsion-free group*	(1283–1286)	294
Foht, A. S. *A boundary value estimate for the solution of an elliptic equation of arbitrary order with variable coefficients in the case where the coefficients degenerate at the boundary*	(1287–1290)	298
Štan′ko, M. *Continua with the fixed point property*	(1291–1293)	303

CONTENTS

	Page	Russian Reference
Cross Section for Gamma-ray Absorption by Carbon in the Giant Resonance Region. (E) . . . . . N. A. Burgov, G. V. Danilyan, B. S. Dolbilkin, L. E. Lazareva, and F. A. Nikolaev	1159	45, 1693
Properties of Magnetoplasma Waves in Bismuth Single Crystals. (T/E) . . . . . M. S. Khaĭkin, L. A. Fal'kovskiĭ, V. S. Édel'man, and R. T. Mina	1167	45, 1704
Polarization of Cosmic Ray μ^+ Mesons. (E) . . . . . T. L. Asatiani, V. M. Krishchyan, and R. O. Sharkhatunyan	1176	45, 1717
Collective Effects in the Cs^{131} Nucleus. (E) . . . . . G. A. Vartapetyan, A. G. Khudaverdyan, and T. A. Garibyan	1178	45, 1720
Elastic Scattering of 3.4—4.2 MeV Protons by Ni^{62} and Ni^{64} Isotopes. (E) . . . . . V. Ya. Golovnya, A. P. Klyucharev, and B. A. Shilyaev	1183	45, 1727
Proton Capture Reaction on the Atomic Nuclei Na^{23}, Mg^{26}, Al^{27} and P^{31}. (E) . . . . . I. Berkes, I. Dézsi, L. Keszthelyi, and I. Fodor	1186	45, 1731
Measurement of the Mass Difference of Charged and Neutral Pions. (E) . . . . . V. I. Petrukhin and Yu. D. Prokoshkin	1190	45, 1737
Investigation of Neutron Resonances in Rh^{103}. (E) . . . . Wang Nai-Yen, I. Vizi, V. N. Efimov, É. N. Karzhavina, Kim Hi San, A. B. Popov, L. B. Pikel'ner, M. I, Pshitula, T. Stadnikov, Ch'eng Ling-Yen, É. I. Sharapov, I. I. Shelontsev, N. Yu. Shirikova, and Yu. S. Yazvitskiĭ	1194	45, 1743
Asymmetry of Double Scattering of Neutrons on Helium. (E) . . . . . P. S. Ot-Stavnov, G. N. Lovchikova, and V. I. Popov	1202	45, 1754
Excitation of Balmer Hydrogen Lines Upon Passage of H^+, H_2^+, and H_3^+ Through Helium and Neon. (E) . . . . . S. V. Bobashev, E. P. Andreev, and V. A. Ankudinov	1205	45, 1759
Maser with Two Resonators in Series. (E/T) . . . . . N. G. Basov, A. N. Oraevskiĭ, G. M. Strakhovskiĭ, and V. M. Tatarenkov	1211	45, 1768
Lifetime of the 4^+ (2310 keV) Level in Ti^{48}. (E) . . . . A. F. Akkerman, V. L. Kochetkov, V. N. Chekanov, V. V. Suvorov, and A. K. Shtol'ts	1218	45, 1778
Short Range Products from Nuclear Disintegrations Induced by Protons with Energies Between 2 and 9 GeV. (E) . . . . . P. A. Gorichev, O. V. Lozhkin, and N. A. Perfilov	1222	45, 1784
Fragment Production from the Interaction of 7.3-BeV π^- Mesons with Emulsion Nuclei. (E) . . . . . Yu. F. Gagarin and N. S. Ivanova	1228	45, 1793
Measurement of the Total Muon Capture Probability in He^3. (E) . . . . O. A. Zaĭmidoroga, M. M. Kulyukin, B. Pontecorvo, R. M. Sulyaev, I. V. Falomkin, A. I. Filippov, V. M. Tsupko-Sitnikov, and Yu. A. Shcherbakov	1235	45, 1803
Total Cross Section for the Interaction Between Neutrons and Protons at 5.5 GeV. (E) . . . . . M. N. Khachaturyan and V. S. Pantuev	1239	45, 1808
New Data on Alpha Decay of Americium Isotopes. (E) . . . . . S. A. Baranov, V. M. Kulakov, and V. M. Shatinskiĭ	1241	45, 1811
On Hyperfine Interaction in Re (VI). (E) . . . . . N. S. Garif'yanov	1246	45, 1819
Scattering of Protons with Energies Below 5 MeV on Ne^{20}. (E) . . . H. Hulubei, J. Francz, N. Martalogu, N. Scintei, M. Ivascu, A. Berinde, and I. Neamu	1248	45, 1822
Development of Turbulence in the Presence of a Heat Flow in Helium II within a Capillary and the Critical Velocity Problem. (E/T) . . . . . V. K. Tkachenko	1251	45, 1827
Spectra of Charged Mesons Emitted at 90° in np Collisions Involving 600 MeV Neutrons. (E) . . . . . K. O. Oganesyan and V. A. Yarba	1257	45, 1835
A Study of Superconducting Tin by the Tunnel Effect. (E) . . . . . N. V. Zavaritskiĭ	1260	45, 1839
Spectroscopic Investigation of Turbulence Heating of a Plasma. (E) . . . . . S. P. Zagorodnikov, G. E. Smolkin, and G. V. Sholin	1268	45, 1850
Intensities of Gamma Transitions to the Ground Rotational Band in Neutron Resonances of the $Gd^{155}(n, \gamma)Gd^{156}$ Reaction. (E) . . . . . L. S. Danelyan, B. V. Efimov, S. K. Sotnikov, and V. Kakhramanov-Dzhazairov	1274	45, 1858
Altitude Variation of Vertical Extensive Air Showers in the Upper Part of the Atmosphere. (E) . . . . . R. A. Antonov, Yu. A. Smorodin, and Z. I. Tulinova	1279	45, 1865
Determination of the Ratio of the Probabilities for Electron Capture and Positron Decay of Sb^{115} with the Aid of a Scintillation Gamma Spectrometer. (E) . . . . . N. A. Vartanov	1286	45, 1875
Evidence for the $\omega \to \pi^0 + \gamma$ Decay. (E/T) . . . . . V. V. Barmin, A. G. Dolgolenko, Yu. S. Krestnikov, A. G. Meshkovskiĭ, Yu. P. Nikitin, and V. A. Shebanov	1289	45, 1879
Equilibrium Shape of a Nucleus According to the Drop Model with Variable Surface Tension. (T) . . . . . V. M. Strutinskiĭ	1298	45, 1891
Stability of Equilibrium States of the Nucleus in the Drop Model. (T) . . . . . V. M. Strutinskiĭ	1305	45, 1900

(Contents continued on inside back cover)

	Page	Russian Reference
Oscillations in the Radiation from a Laser. (T) — A. M. Ratner	1311	45, 1908
Composition of Nuclear-Active Component of Cosmic Rays in the Atmosphere. (T) — N. L. Grigorov	1318	45, 1919
The Doubly Logarithmic Approximation in Quantum Electrodynamics. (T) — G. A. Milekhin and E. S. Fradkin	1323	45, 1926
Electron Scattering by Light Nuclei in the Unified Model. (T/E) — B. I. Tishchenko	1332	45, 1940
On Inelastic Processes Due to Various Types of Moving Poles. (T) — I. M. Dremin and D. S. Chernavskiĭ	1334	45, 1943
Compound-elastic Scattering in Elastic Scattering of 5.45 MeV Protons on Nickel Isotopes. (T) — G. F. Timoshevskiĭ, R. A. Vanetsian, A. P. Klyucharev, and E. D. Fedchenko	1340	45, 1951
Decays of the Hypernucleus $\Sigma\bar{p}$. (T) — V. A. Filimonov	1342	45, 1954
The Magnetic Properties of Superconductors with $l \neq 0$ Pairing. Theory of the Knight Shift. (T) — I. A. Privorotskiĭ	1346	45, 1961
Lateral Distribution of Nuclear-active Particles in Extensive Air Showers. (T) — É. V. Gedalin	1351	45, 1967
Semi-Empirical Method of Calculating the Cross Section for Elastic Scattering of Slow Electrons by Atoms. (T) — L. M. Biberman and G. É. Norman	1353	45, 1970
Resonance Properties of Inhomogeneous Plasma Structures. (T) — V. B. Gil'denburg	1359	45, 1978
pp-Scattering Phase Shifts at 435 MeV. (T/E) — L. S. Azhgireĭ	1365	45, 1988
Critical Current and Critical Magnetic Field in Hard Superconductors. (T) — V. V. Shmidt	1368	45, 1992
The Opto-acoustic Maser Effect. (T) — V. R. Nagibarov and U. Kh. Kopvillem	1377	45, 2006
K_{e5} Decay. (T) — V. A. Kolkunov and I. V. Lyagin	1379	45, 2009
On a Certain Model for Calculation of the Effective Cross Sections for Excitation of Atoms. (T) — L. Vaĭnshteĭn, L. Presnyakov, and I. Sobel'man	1383	45, 2015
Quantum Oscillations at High Temperatures. (T) — M. Ya. Azbel'	1388	45, 2022
Field Theory with Nonlocal Interaction. III. Diagram Technique. (T) — D. A. Kirzhnits	1390	45, 2024
The Conductivity of Strongly Compressed Matter. (T) — A. A. Abrikosov	1399	45, 2038
Longitudinal Polarization of Electrons in Allowed Beta Transitions. (T) — A. M. Mukhamedzhanov	1405	45, 2048
Post-newtonian Equations of Motion and the Harmonicity Conditions in the Theory of Gravitation. (T) — H. Wojewoda	1408	45, 2051
Singularity of Thermodynamic Quantities at a First Order Phase Transition Point. (T) — A. F. Andreev	1415	45, 2064

LETTERS TO THE EDITOR

New Short-lived Isomers of Ruthenium and Tellurium. (E) — A. G. Demin and I. M. Rozman	1417	45, 2067
Layered and Filamentlike Structure of Superconducting Nb-Zr and Nb-Ti Alloys. (E) — B. G. Lazarev, V. K. Khorenko, L. A. Kornienko, A. I. Krivko, A. A. Matsakova, and O. N. Ovcharenko	1417	45, 2068
Band-structure Effect on the Angular Correlation of Annihilation Radiation in Yttrium. (E) — V. L. Sedov	1419	45, 2070
Formation of Fast Residual Nuclei. (E) — V. I. Bogatin, O. V. Lozhkin, and Yu. P. Yakovlev	1420	45, 2072
Phase Transitions in Tellurium at High Pressures. (E) — S. S. Kabalkina, L. F. Vereshchagin, and B. M. Shulenin	1422	45, 2073
Anisotropy of the Energy Gap in Superconducting Tin. (E) — A. G. Shepelev	1423	45, 2076
"Air" Spark Chambers for the Registration of Particle Showers. (E) — M. I. Daĭon and L. F. Klimanova	1425	45, 2078
A 4 mm Fabry-Perot Maser. (E) — A. F. Krupnov and V. A. Skvortsov	1426	45, 2080
Search for the Decay $\omega \rightarrow e^+ + e^-$. (E) — V. V. Barmin, A. G. Dolgolenko, Yu. S. Krestnikov, A. G. Meshkovskiĭ, and V. A. Shebanov	1427	45, 2082

CONTENTS

	Page	Russian Reference
Investigation of Brownian Rotation of Nonspherical Liquid Molecules by Nuclear Paramagnetic Resonance. (E) — A. Sh. Agishev	1	46, 3
Polarization of Gamma Rays from $Si^{30}(p, \gamma)P^{31}$. (E) — P. M. Tutakin	7	46, 10
Concerning the Fermi Surface of Aluminum. (T/E) — V. P. Naberezhnykh and V. P. Tolstoluzhskiĭ	13	46, 18
Formation of High Energy Gamma Quanta in Extensive Air Showers with Energies 10^{14}–10^{15} eV in the Upper Third of the Atmosphere. (E) — R. A. Antonov, Yu. A. Smorodin, and Z. I. Tulinova	20	46, 28
Formation of a Virtual Cathode in an Electron Beam Passing through a Plasma. (E) — M. V. Nezlin	26	46, 36
Investigation of the Interaction of 3×10^{11}–6×10^{12} eV Nucleons at Altitudes of 6–12 km. (E) — B. V. Tolkachev	31	46, 43
Triple Scattering of 660-MeV Protons. IV. Angular Dependence of the Parameter A. (E) — Yu. P. Kumekin, M. G. Meshcheryakov, S. B. Nurushev, and G. D. Stoletov	36	46, 50
Estimate of the Relative Probability for the $K_2^0 \to 3\pi^0$ Decay. (E/T) — M. Kh. Anikina, M. S. Zhuravleva, D. M. Kotlyarevskiĭ, Z. Sh. Mandzhavidze, A. N. Mestvirishvili, D. V. Neagu, É. O. Okonov, N. I. Petrov, V. A. Rusakov, G. G. Takhtamyshev, L. V. Chkhaidze, and Wu Tsun-Fan	42	46, 59
Hall Coefficient and Electrical Resistance of Ferromagnets. (E) — I. K. Kikoin and T. N. Igosheva	48	46, 67
Mode Excitation and an Explanation of the Divergence of the Radiation from a Ruby Laser (E) — A. M. Leontovich and A. P. Veduta	51	46, 71
Cross Sections for Radiative Capture of Neutrons with Energies up to 50 keV by La^{139}, Pr^{141}, Ta^{181}, and Au^{197}. (E) — V. A. Konks, Yu. P. Popov, and F. L. Shapiro	59	46, 80
Paramagnetic Resonance of Free Gold and Silver Atoms Trapped in Various Media at Liquid Nitrogen Temperatures. (E) — R. A. Zhitnikov and N. V. Kolesnikov	65	46, 89
Investigation of Inelastic Collisions between 2.8 BeV/c π^--Mesons and Protons. (E) — Yu. V. Trebukhovskiĭ, I. A. Erofeev, and G. D. Tikhomirov	72	46, 99
The Temperature Dependence of the Overhauser Effect in Dilute Aqueous Manganese Ion Solutions in Low Magnetic Fields. (E) — V. E. Kul'beda	77	46, 106
Nuclear-active Particles in Young Air Showers. (E) — Kh. P. Babayan, N. G. Boyadzhyan, É. A. Mamidzhanyan, N. L. Grigorov, Ch. A. Tret'yakova, and V. Ya. Shestoperov	80	46, 110
Investigation of the Fermi Surface of Aluminum by the Method of Quantum Oscillations of the High Frequency Surface Resistance. (E) — E. P. Vol'skiĭ	89	46, 123
Antiferromagnetic Resonance in $CoCO_3$. (E) — E. G. Rudashevskiĭ	96	46, 134
Resonance Absorption of Gamma Quanta in Magnesium Stannide. 23.8 keV Absorption Line with the Natural Line Width. (E) — V. A. Bryukhanov, N. Y. Delyagin, and R. N. Kuz'min	98	46, 137
An Investigation of the $\pi^- + p \to n + \pi^0$ Charge Exchange Scattering and the $\pi^- + p \to n + \eta$ ($\eta \to 2\gamma$) Reaction in the 1.55–4.5 BeV/c Region. (E) — V. V. Barmin, A. G. Dolgolenko, Yu. S. Krestnikov, A. G. Meshkovskiĭ, and V. A. Shebanov	102	46, 142
Texture in Layers of Hydrogen Isotopes Condensed on a Cooled Substrate. (E) — V. S. Kogan, A. S. Bulatov, and L. F. Yakimenko	107	46, 148
Some Properties of the Central Macroscopic Vortex in Rotating Helium. (E) — D. S. Tsakadze	110	46, 153
Possible Existence of Onsager-Feynman Vortices at Temperatures Above the λ Point (E) — É. L. Andronikashvili, K. B. Mesoed, and Dzh. S. Tsakadze	113	46, 157
Thermomechanical Effect Near the λ Point in Rotating Liquid Helium. (E) — L. A. Zamtaradze and Dzh. S. Tsakadze	116	46, 162
On the Irrotational Region in Rotating He II. (T/E) — M. P. Kemoklidze and Yu. G. Mamaladze	118	46, 165
Measurement of the Polarization of Protons Elastically Scattered on D^2, T^3, and He^3 Nuclei. (E) — N. A. Skakun, A. G. Strashinskiĭ, and A. P. Klyucharev	120	46, 167
Conditions for Heating up of a Plasma by the Radiation from an Optical Generator. (T) — N. G. Basov and O. N. Krokhin	123	46, 171
Angular Correlations Near the Threshold of Formation of an Unstable Particle. (T) — L. M. Lazarev	126	46, 176

(Contents continued on inside back cover)

	Page	Russian Reference
Resonance Interaction of Radiation with a Medium. (T) . . . A. P. Kazantsev and V. S. Smirnov	130	46, 182
Infinite Time Formalism in Quantum Field Theory. (T) . . . Yu. D. Usachev	133	46, 187
An Integral Equation for the $\omega_0 \rightarrow 3\pi$ Decay. (T) . . . V. A. Shakhbazyan	139	46, 196
Equations of Motion and State for Magnetoelastic Media. (T) . . . K. B. Vlasov and B. Kh. Ishmukhametov	142	46, 201
Boundary Energy of a Fermi Gas in a Potential Well. (T) . . . S. A. Gurvits, A. A. Migdal, and A. M. Polyakov	149	46, 213
Threshold Anomalies in the Photoproduction of Pions on Nucleons. (T) . . . M. P. Rekalo	152	46, 218
Rotation of the Plane of Polarization of Ultrasound in Metals in a Strong Magnetic Field. (T) . . . K. B. Vlasov and B. N. Filippov	156	46, 223
On the Possible Scheme of Production of Λ Hyperons Via Isobars in π^-p-Interaction at 7—8 BeV. (T) . . . V. F. Vishnevskiĭ, Tu Yüan-Ts'ai, V. I. Moroz, A. V. Nikitin, Yu. A. Troyan, Chiang Shao-Chün, Chang Wen-Yü, B. A. Shahbazyan, and Yen Wu-Kuang	162	46, 232
Dispersion Relations for the Indices of Refraction and Absorption. (T) . . . V. L. Ginzburg and N. N. Meĭman	169	46, 243
Dissociation of Diatomic Molecules During Beta Decay. (T) . . . Yu. D. Oksyuk and V. I. Gerasimenko	176	46, 254
Interaction Between Electrons and Lattice Oscillations in a Normal Metal. (T) . . . É. G. Batyev and V. L. Pokrovskiĭ	181	46, 262
Regge Poles in the Problem of the Quasiclassical Potential Well at Energies Below the Bottom of the Well. (T) . . . I. A. Fomin	187	46, 270
Theory of Coupled Electromagnetic and Acoustic Waves in Metals in a Magnetic Field. (T) . . . V. G. Skobov and É. A. Kaner	189	46, 273
Optical Properties of Metals in the Case of a Weakly Anomalous Skin Effect. (T) . . . G. P. Motulevich	199	46, 287
Photoproduction of Strange Particles at High Energies. (T) . . . M. P. Rekalo	204	46, 293
Theory of Conversion and Scattering of Electromagnetic Waves in a Nonequilibrium Plasma (T) . . . I. A. Akhiezer, I. A. Daneliya, and N. L. Tsintsadze	208	46, 300
Theory of Relaxation Processes in a Uniaxial Antiferrodielectric. (T) . . . I. E. Chupis	212	46, 307
Oscillation of Photon Density in a Resonance Medium. (T) . . . A. I. Alekseev, Yu. A. Vdovin, and V. M. Galitskiĭ	220	46, 320
"Parametric Resonance" in Luminescence as a Multi-photon Process. (T) . . . V. A. Khodovoĭ	227	46, 331
Spectral Representations in the Quasioptical Approach. (T) . . . M. K. Polivanov and S. S. Khoruzhiĭ	232	46, 339
Growth of Fluctuations Associated with Instability of a System. I. (T) . . . V. L. Gurevich	242	46, 354
Damping of a Nonlinear Longitudinal Monochromatic Wave in a Weakly Ionized Plasma. (E) . . . R. Ya. Kucherov	251	46, 368
Radiation from Fast Electrons with Oriented Spins in a Magnetic Field. (T) . . . I. M. Ternov, V. G. Bagrov, and R. A. Rzaev	255	46, 374

LETTERS TO THE EDITOR

	Page	Russian Reference
Change of Resonance Absorption Spectra of 23.8-keV Gamma Rays of Sn^{119} During Phase Transitions of the $BiFeO_3$-$Sr(Sn_{1/3}Mn_{2/3})O_3$ System. (E) . . . K. P. Mitrofanov, A. S. Viskov, G. Ya. Driker, M. V. Plotnikova, Pham Zuy Hien, Yu. N. Venevtsev, and V. S. Shpinel'	260	46, 383
Stimulated Emission of Nd^{3+} in CaF_2 at Room Temperature. (E) . . . A. A. Kaminskiĭ, L. S. Kornienko, L. V. Makarenko, A. M. Prokhorov, and M. M. Fursikov	262	46, 386
Temperature Dependence of the Mössbauer Effect on Fe^{57} Impurity Nuclei in a Gold Lattice (E) . . . V. I. Nikolaev and S. S. Yakimov	264	46, 389
A New Gas-discharge Track Detector: The Streamer Chamber. (E) . . . B. A. Dolgoshein and B. I. Luchkov	266	46, 392
Optical Transitions Between Closely Spaced Impurity Centers and the Related Photoconductivity. (E) . . . Sh. M. Kogan, T. M. Lifshitz, and V. I. Sidorov	268	46, 395
On the Superconductivity of Electrons at the Surface Levels. (T) . . . V. L. Ginzburg and D. A. Kirzhnits	269	46, 397
Investigation of the Magnetic Properties of Dibenzenechromium and Ditoluenechromium Iodides at Very Low Temperatures. (E) . . . Yu. S. Karimov and I. F. Shchegolev	270	46, 399
Influence of a Magnetic Field on the Thermal Conductivity of Gases with Nonspherical Molecules. (E) . . . L. L. Gorelik and V. V. Sinitsyn	272	46, 401
Excitation and Dissociation of Molecules in an Intense Light Field. (T) . . . G. A. Askar'yan	273	46, 403

CONTENTS

	Page	Russian Reference	
Frontispiece	275		
Li^7 (p, α) He^4 Reaction Induced by Polarized 0.5—2 MeV Protons. (E). Yu. P. Antuf'ev, T. Bunduk, A. Fikri, F. Machali, and N. V. Sorokin	276	46,	409
Absorption of 40—70 MeV $\pi^{\pm}$ Mesons by Carbon in a Propane Bubble Chamber. (E). M. P. Balandin, O. I. Ivanov, V. A. Moiseenko, and G. L. Sokolov	279	46,	415
Energy Spectra and Angular Distribution of Li^8 Fragments Produced in the Interactions Between 660-MeV Protons and Aluminum Nuclei. (E). V. I. Bogatin, O. V. Lozhkin, N. A. Perfilov, and Yu. P. Yakovlev	289	46,	431
Magneto-optics of Eu^{3+} Ions in a Ferromagnetic Crystal. (E). G. S. Krinchik and G. K. Tyutneva	292	46,	435
Magnetic Properties of Single-crystal and Polycrystalline Yttrium. (E). V. I. Chechernikov, Iuliu Pop, V. F. Terekhova, and V. E. Kolesnichenko	298	46,	444
Verification of the Properties of Cerenkov Radiation in Uniaxial Calcite Crystals. (E). V. P. Zrelov	300	46,	447
Some Features of the Temperature Dependence of the Electrical Resistance of Gadolinium and Ytterbium at Low Temperatures. (E). N. V. Volkenshteĭn and V. E. Startsev	308	46,	457
Optical and Electrical Properties of Tin. (E). A. I. Golovashkin and G. P. Motulevich	310	46,	460
Differential and Integral Cross Sections for the Loss and Capture of Electrons by Singly Charged Argon Ions at 250—1400 keV Energies. (E). L. I. Pivovar, M. T. Novikov, and V. M. Tubaev	318	46,	471
A Study of the Mössbauer Effect on Sm^{149} (E). V. P. Alfimenkov, N. A. Lebedev, Yu. M. Ostanevich, T. Ruskov, and A. V. Strelkov	326	46,	482
Influence of the Antiferromagnetic Ordering on the Optical Absorption Spectrum of Manganese Carbonate Crystals. (E). A. I. Belyaeva and V. V. Eremenko	330	46,	488
Oriented Tb^{160} Nuclei in Metallic Terbium. (E). V. P. Parfenova, V. N. Anishchenko, and V. S. Shpinel'	333	46,	492
Absorption of Energy Produced by the Two-stream Instability in a Toroidal Plasma. (E). S. D. Fanchenko, B. A. Demidov, N. I. Elagin, and D. D. Ryutov	337	46,	497
Hyperfine Structure of the EPR Lines of the V^{50} and V^{51} Isotopes. (E). N. S. Garif'yanov and S. E. Kamenev	340	46,	501
Attempt to Detect an Irrotational Region in Rotating He II. (E). D. S. Tsakadze	343	46,	505
Some Results of an Experimental Investigation of the Effect of a Magnetic Field on the Radiation Spectrum of a Ruby Laser. (E). A. M. Kubarev and V. I. Piskarev	345	46,	508
New Results in Turbulence Heating of a Plasma. (E). M. V. Babykin, P. P. Gavrin, E. K. Zavoĭskiĭ, L. I. Rudakov, V. A. Skoryupin, and G. V. Sholin	349	46,	511
Relaxation of the Magnetic Moment in an Antiferromagnet with Anisotropy of the "Easy Plane" Type. (T). V. I. Ozhogin	362	46,	531
On the Quantum Theory of Transport Phenomena in Strong Magnetic Fields. (T). P. S. Zyryanov and V. P. Silin	366	46,	537
The Mandelstam Representation and the Continuity Theorem. (T). D. Ya. Petrina	370	46,	544
On the Mechanism of Operation of a Raman Laser. (T). V. T. Platonenko and R. V. Khokhlov	378	46,	555
Concerning the Probabilities of Nonadiabatic Transitions Near the Turning Points. (T). Yu. S. Sayasov	382	46,	560
The Behavior of the Cross Section of the Inelastic Process a + b → c + d + e at High Energies. (T). I. G. Ivanter, A. M. Popova, and K. A. Ter-Martirosyan	387	46,	568
Electron Transitions in Chemical Reactions. (T). B. M. Smirnov	394	46,	578
New Reduction Formulas. (T). Yu. M. Shirokov	397	46,	583
Effect of Electron Diamagnetism on the Nuclear Magnetic Resonance Frequencies in Metals. (T). D. G. Dolgopolov and P. S. Bystrik	404	46,	593
Nonlinear Effects Limiting the Amplification of Sound in Piezoelectrics. (T). V. L. Gurevich and B. D. Laĭkhtman	407	46,	598
Electroproduction of Pions and Fermion Regge Poles. (T). M. P. Rekalo	416	46,	612
Stationary Relativistic Flow of a Plasma in a Magnetic Field. (T). A. P. Kazantsev	421	46,	620
Intersection of Vacuum Pole Trajectories. (T). I. I. Roĭzen and D. S. Chernavskiĭ	426	46,	628
Effect of Anharmonicity on the Intensity of the Mössbauer Line. (T). M. A. Krivoglaz	432	46,	637
Shape of the Nuclear Magnetic Resonance Signal From Superconducting Alloys Near the Second Critical Field. (T). V. V. Shmidt	440	46,	649
Relativistic Equation for the S Matrix in the p Representation. I. Unitarity and Causality Conditions. (T). V. G. Kadyshevskiĭ	443	46,	654

(Contents continued on inside back cover)

	Page	Russian Reference	
On a Set of Algebraic Equations Equivalent to the Low Equations. (T) . . . . . P. Kh. Byrnev, V. A. Meshcheryakov and I. P. Nedyalkov	449	46,	663
The $\pi^+ + p \rightarrow \pi + \pi + N$ Reaction Near Threshold. (T) . . . . . Yu. Niri	455	46,	671
Contribution to the Theory of the Critical Point. (T) . . . . . M. Ya. Azbel', A. V. Voronel', and M. Sh. Giterman	457	46,	673
Elementary and Composite Particles in the Lagrangian Formalism. (T) . . . M. A. Braun	460	46,	677
On the Possibility of Appearance of Large Scale Inhomogeneities in the Expanding Universe. (T) . . . . . I. D. Novikov	467	46,	686
Inelastic Scattering of Photons by a Coulomb Field Accompanied by Electron-positron Pair Production. (T) . . . . . G. M. Shklyarevskiĭ	470	46,	690
On the Theory of Stimulated Combination (Raman) Radiation. (T) . . . . . V. M. Faĭn and E. G. Yashchin	474	46,	695
On the Theory of Electromagnetic Effects in the Presence of the Hall Effect. (T) . . . . . A. I. Morozov and A. P. Shubin	484	46,	710
Thermal Conductivity of Dielectrics and Ferrodielectrics at Low Temperatures. (T) . . . . . R. N. Gurzhi	490	46,	719
Mean Field Strength in an Inhomogeneous Medium. (T) . . . . . V. M. Finkel'berg	494	46,	725
A Quasilinear Approximation and the Correlation Functions for a Plasma. (T) . . . . . S. V. Iordanskiĭ and A. G. Kulikovskiĭ	499	46,	732
Interaction of a Quantum System with a Strong Field. (T) . . . . . T. A. Germogenova and S. G. Rautian	507	46,	745
On the Possibility of Macroscopic Manifestations of Violation of Microscopic Causality. (T) . . . . . D. A. Kirzhnits and V. L. Polyachenko	514	46,	755
Theory of Cyclotron Resonance in Metals. (T) . . . . V. G. Peschanskiĭ and V. S. Lekhtsier	520	46,	764
Scattering of Polarized Gamma Quanta by the Field of a Nucleus Accompanied by Creation of Electron-positron Pairs. (T) . . . . . I. M. Nadzhafov, N. A. Tenyakova, and A. I. Mukhtarov	524	46,	769
Quantum Processes in the Field of a Plane Electromagnetic Wave and in a Constant Field. I. (T) . . . . . A. I. Nikishov and V. I. Ritus	529	46,	776
Phase Shift Analysis of Nucleon-nucleon Scattering at 630 MeV. (T/E) . . . . . Yu. M. Kazarinov and V. S. Kiselev	542	46,	797
The Shape of the Meniscus of Rotating He II. (T) . . . . . M. P. Kemoklidze and Yu. G. Mamaladze	547	46,	804

BRIEF COMMUNICATIONS

Energy Levels of the Rh^{104} Nucleus. (E) . . . . . I. V. Estulin, L. F. Kalinkin, and A. S. Melioranskiĭ	549	46,	807
Production of Multiply Charged Nuclei in Interactions Between 75—350 MeV Protons and Nuclei. (E) . . . . . M. M. Makarov	551	46,	809

LETTERS TO THE EDITOR

Residual np Interaction in Heavy Nuclei and High-lying Isomeric States. (T) . . . . . L. A. Sliv and Yu. I. Kharitonov	553	46,	811
Diffusion Losses of C^{11} Nuclei in Plastic Films Activated by High-energy Protons. (E) . . . . . B. I. Bekker, V. S. Pantuev, V. A. Sviridov, and M. N. Khachaturyan	554	46,	813
Effect of an Intense Light Beam on Matter and Particle Beams in a Magnetic Trap. (T) . . . . . G. A. Akar'yan, N. B. Delone, and M. S. Rabinovich	555	46,	814
Double Charge Exchange of π^- Mesons. (E) . . . . . Yu. A. Batusov, S. A. Bunyatov, V. M. Sidorov, and V. A. Yarba	557	46,	817
Neutrino Scattering by a Polarized Electron. (T) . . S. S. Gershteĭn and V. N. Filomeshkin	558	46,	818

CONTENTS

	Page	Russian Reference
Nonlinear Dependence of the Ferromagnetic Transition Temperature of Two Invar Alloys on the Hydrostatic Pressure. (E) . . . . . L. D. Livshitz and Yu. S. Genshaft	560	46, 821
The Mössbauer Effect on Sn^{119} Nuclei in Gold, Platinum, and Thallium Matrices. (E) . . . . . V. A. Bryukhanov, N. N. Delyagin, and Yu. Kagan	563	46, 825
Characteristic Influence of Impurities on the Superconducting Transition Temperature of Thallium. (E) . . . . . B. G. Lazarev, L. S. Lazareva, V. I. Makarov, and T. A. Ignat'eva	566	46, 829
Critical Magnetic Fields of Superconducting Niobium Films. (E) . . . . . I. G. D'yakov, B. G. Lazarev, A. A. Matsakova, and O. N. Ovcharenko	568	46, 831
Ionizing Collisions of Electrons with Ions and Atoms. (E) . . . . . Z. Z. Latypov, S. E. Kupriyanov, and N. N. Tunitskiĭ	570	46, 833
Temperature Dependence of Isotopic Effects in the Structural Properties of Hydrogen Isotopes. (E) . . . . . R. F. Bulatova and V. S. Kogan	575	46, 840
On the Problem of the λ-Point Shift in Rotating Liquid Helium. (E) . . . . . R. A. Bablidze, Dzh. S. Tsakadze, and G. V. Chanishvili	577	46, 843
Renormalization Group Method and High Energy Scattering. (T) . . . . . K. Huang and F. E. Low	579	46, 845
On the Theory of Bremsstrahlung and Pair Production in a Medium. (T) . . . . . I. N. Toptygin	583	46, 851
Nonadiabatic Transitions in Slow Collisions Between Heavy Particles. (T) . . . . . G. V. Dubrovskiĭ	591	46, 863
A Relativistic Equation for the S-Matrix in the p-Representation. (T) . . . . . V. G. Kadyshevskiĭ	597	46, 872
Hydrothermomagnetic Waves in a Weakly Inhomogeneous Plasma. (T) . . . . . L. É. Gurevich and B. L. Gel'mont	604	46, 884
Restrictions Imposed on the Magnitude of the Cross Section for the Reaction $e^+ + e^- \rightarrow \pi^+ + \pi^-$ by Analyticity Requirements. (T) . . . . . B. V. Geshkenbeĭn and B. L. Ioffe	615	46, 902
On the Analytic Properties of Green's Functions and of the Mass Operator. (T) . . . . . S. L. Ginzburg	617	46, 905
Quantum Oscillations of the Field Emission Current from Metals in a Magnetic Field. (T) . . . . . G. A. Gogadze, F. I. Itskovich, and I. O. Kulik	622	46, 913
Energy Dependence of the Phase Shifts for Nucleon-Nucleon Scattering in the 23—126 MeV Energy Range. (T/E) . . . . . Yu. M. Kazarinov, V. S. Kiselev, and V. I. Satarov	627	46, 920
The Amplitude and Shape of Strata. (T) . . . . . A. V. Nedospasov and Yu. B. Ponomarenko	631	46, 926
Energy Spectrum of a Conduction Electron in a Magnetic Field. (T) . . . . . M. Ya. Azbel'	634	46, 929
Interaction Between Particles with Spins and the Regge Poles. (T) . . . . . M. S. Marinov	646	46, 947
Averaged Laser Equations and their Stationary Solutions. (T) . . . . . L. A. Ostrovskiĭ and E. I. Yakubovich	656	46, 963
Regge Poles and Nuclear Resonance Reactions. I. (T) . . . . . V. S. Popov and É. I. Dolinskiĭ	661	46, 970
Regge Trajectories in the Bethe-Salpeter Equation. (T) . . . . . Yu. A. Simonov	671	46, 985
Second Order Phase Transitions in a Bose Fluid. (T) . . . . . A. Z. Patashinskiĭ and V. L. Pokrovskiĭ	677	46, 994
Resonance Charge Exchange in Slow Collisions. (T) . . . . . B. M. Smirnov	692	46, 1017
Asymptotic Value for the Interaction Cross Section for Two Fermi Particles in the e^4 Approximation. (T) . . . . . V. G. Babak, V. K. Ignatovich, and E. S. Fradkin	697	46, 1025

(Contents continued on inside back cover)

	Page	Russian Reference
On the Symmetry of the Clebsch-Gordan Coefficients. (T) . . . L. A. Shelepin	702	46, 1033
Asymptotic Equality of Differential Cross Sections for Particles and Antiparticles. (T) . . . N. N. Meĭman	706	46, 1039
Minimal Interactions Between Spin 0, ½, and 1 Fields. (T) . . . V. I. Ogievetskiĭ and I. V. Polubarinov	712	46, 1048
Some Features of the Thermomagnetic Effects in Ferromagnetic Metals. (T) . . . L. É. Gurevich and G. M. Nedlin	717	46, 1056
Effect of Quantum Absorption on Bremsstrahlung of Ultra-relativistic Electrons. (T) . . . V. M. Galitskiĭ and V. V. Yakimets	723	46, 1066
Further Refinement of pp-Scattering Phase Shifts at 657 MeV. (T/E) . . . L. S. Azhgireĭ, N. P. Klepikov, Yu. P. Kumekin, M. G. Meshcheryakov, S. B. Nurushev, and G. D. Stoletov	728	46, 1074
Asymptotic Relations Between Cross Sections in Local Field Theory. (T) . . . A. A. Logunov, Nguyen Van Hieu, I. T. Todorov, and O. A. Khrustalev	732	46, 1079
The Excitation and Ionization of Atoms in a Strong Radiation Field. (T) . . . F. V. Bunkin and A. M. Prokhorov	739	46, 1090
Asymptotic Relations Between Polarizations in Crossed Reactions. (T) . . . S. M. Bilen'kiĭ, Nguyen Van Hieu, and R. M. Ryndin	744	46, 1098
Electromagnetic Waves in Metals with an Arbitrary Electron Dispersion Law. (T) . . . É. A. Kaner and V. G. Skobov	749	46, 1106
On the Maximum Efficiency of Transformation of Radiant Energy into Work. (T) . . . L. N. Bell	756	46, 1117
Fourth Sound in an He^3—He^4 Solution. (T) . . . D. G. Sanikidze and D. M. Chernikova	760	46, 1123
Detachment of Electrons in Slow Collisions Between Negative Ions and Atoms. (T) . . . Yu. N. Demkov	762	46, 1126
BRIEF COMMUNICATIONS		
Photoprotons from Li^6. (E) . . . E. D. Makhnovskiĭ	769	46, 1136
Half Life of Tb^{157}. (E) . . . E. P. Grigor'ev	770	46, 1138
Angular and Energy Characteristics of U^{235} Fission Neutron Emission. (E) . . . M. M. Blinov, N. M. Kazarinov, and A. N. Protopopov	771	46, 1139
LETTERS TO THE EDITOR		
Measurement of the Ionizing Ability of Particles in a Spark Chamber. (E) . . . V. A. Lyubimov and F. A. Pavlovskiĭ	773	46, 1142
Universal Instability in a Potassium Plasma. (E) . . . N. S. Buchel'nikova	775	46, 1147
Effect of Uniform Compression on the Magnetization of Ho and Er in the Antiferromagnetic Region. (E) . . . L. I. Vinokurova and E. I. Kondorskiĭ	777	46, 1149
Threshold Saturation of Resonance in Antiferromagnetic $MnCO_3$. (E) . . . A. S. Borovik-Romanov and L. A. Prozorova	778	46, 1151
On the Character of Low-energy Interactions of Pions from the Reactions $p + d \rightarrow He^3 + 2\pi$ and $\pi + N \rightarrow N + 2\pi$. (T) . . . V. V. Anisovich and L. G. Dakhno	779	46, 1152

STATIONS IN SPACE
(STANTSII V KOSMOSE: SBORNIK STATEI)
Moscow, 1960

TABLE OF CONTENTS

	Pages	Russ. Page
How The Second Satellite Was Designed	1	42
The Second Satellite, by Yu. A. Pobedonostsov	4	49
The Flying Space Laboratory, by L. I. Sedov	10	66
Life On A Satellite, P. Isakov	12	214
Man Before Launching Into Space, by Ye. Yugov and A. Sorov	22	224
Flight To Mars Is Becoming A Reality, by L. I. Sedov	28	234
Artificial Earth Satellites and The Problems Of Space Flight, by N. P. Barabashov	33	259
From The Earth To The Moon, by A. G. Masevich	38	272
From Moon To Earth, by P. I. Yevdokimov	42	284
First Flight To The Moon	47	291
Nonliving Astronaut, by B. S. Danilin	57	376

FTD-TT-63-1041/1+2

STRUCTURE AND PROPERTIES OF URANIUM, THORIUM AND ZIRCONIUM ALLOYS

Moscow, 1963
- USSR -

Following is a translation of five chapters in the Russian-language book Stroyeniye i Svoystva Splavov Urana, Toriya i Tsirkoniya (Structure and Properties of Uranium, Thorium and Zirconium Alloys), a collection of articles edited by O. S. Ivanov Doctor of Chemical Sciences, Moscow, State Publishing House for Atomic Science and Engineering and the State Committee of the Council of Ministers USSR on Uses of Atomic Energy; 1963. Complete bibliographic information accompanies each article.

Translator's Note: All percentages in this translation are atomic percentages unless otherwise noted.

TABLE OF CONTENTS

	Page	Russ. Page
Uranium Corner of the U-Al-Fe Phase Diagram, by D. K. Khakimova, O. S. Ivanov, and Yu. S. Virgil'yev.	1	16-21
Effect of Repeated Quenching on Cracking of Uranium Alloys, by A. T. Semenchenkov and O. S. Ivanov.	7	47-60
Kinetics of Transformation by Sharp Quenching of the β -Phase in Alloys of Uranium With Aluminum Silicon, Iron, Nickel, Molybdenum and Fissium, by A. T. Semenchenkov and O. S. Ivanov . . .	21	61-69
State of Impurities With Respect to Tempering Temperature of Quenched Uranium Alloys, by A. T. Semenchenkov and O.S. Ivanov.	29	70-76
Corrosion Properties of Th-Zr-Nb Alloys, by T. A. Badayeva and G. K. Alekseyenko.	36	294-298

TECHNICAL CYBERNETICS

No 1, 1964

[Following is the translation of the Russian-language publication Izvestiya Akademii Nauk SSSR, OTN, Tekhnicheskaya Kibernetika (English version above) Moscow, No 1, Jan-Feb 1964, pp. 1 - 208.]

TABLE OF CONTENTS

	Source	Report
1. On Application of the Abstract Theory of Automatons For Minimization of Microprograms, V. M. Glushkov	3	1
2. An Algorithm For Minimization of Microprogram Schemes, L. V. Matsevitiy	9	10
3. Formulation of the Problem of Recognition of Objects with Many Parameters and Methods of Solving It, V. L. Brailovskiy, A. L. Lunts	20	26
4. Minimiaztion of Combination Logical Diagrams Constructed From Single-Functional Elements, V. M. Ozernoy	32	44
5. The Matrix Method of Minimization of the Number of Internal States of Non-Synchronous Finite Automatons, V. G. Lazarev	36	50
6. Some Problems In the Realization of Boolean Functions in Threshold Elements, I Ye. A. Butakov, A. D. Zakrevskiy	39	55
7. Logical Possibilities of Actual Threshold Elements, M. A. Rozenblat, M. B. Gendler	50	74
8. Automatic Control of the Functioning of An Electronic Digital Computer, A. V. Petrosyan, B. S. Mnatsakanyan	65	97
9. On the Construction of a Long Code From A Short One Ensuring the Correction Capability, Yu. L. Sagalovich, A. Yu. Sheverdyayev	73	109
10. Application of Code Rings of Type D In Code Translators, G. F. Yanbykh	73	112

TABLE OF CONTENTS (cont.) Source Report

11. Some Basic Properties of Mass Service Systems With Constant Productivity and Breakdowns "Losses", I. P. Paderno and V. A. Usachev 86 130
12. On Rational Planning of Search Operations, Yu. V. Lyubatov 94 141
13. Extremal Control of Continuous Multi-Parameter Systems by the Method of Random Search, Va. Mutseniyeks, L. A. Rastrigin 101 152
14. The Variation Approach to Evaluations of the Method of Harmonic Balance, Ye. N. Rozenbasser 111 166
15. A Self-Adjusting System With A Pattern. I I. N. Krutova, V. Yu. Rutkovskiy 124 185
16. On Problems of Optimal Control, R. Gabasov, F. M. Kirillova 132 199
17. The Synthesis of Automatic Control Systems By the Criterion of Minimum of Least Means Square Error With A Non-Arbitary Structure, L. T. Chkhartishvili 143 215
18. Synthesis of a Complex System Consisting of Continuous and Discrete Channels. I. B. Chelpanov 154 232
19. On Synthesis Of A Class of Automatic Control Systems Under Random Effects, G. A. Agasandyan 165 249
20. On A Problem of Evaluation Of Essential Parameters of An Object, V. P. Zhivoglyadov, Ye. P. Maslov 175 264
21. Synthesis of Automatic Control Systems With Variable Structure Having A Discontinuous Switching Function, S. V. Yemel'yanov, N. Ye. Kostyleva 182 275
22. Optimal Transfer Processes In A System With Forecasting, N. N. Mikhaylov, Zh. A. Novosel'tseva 187 282
23. Stabilization of a System of Control By Introduction of a Non-Linear Correction, Ye. D. Viktorov 196 295
24. Calculation of the Intermediate Process In the Problem of Statistical Synthesis Of a Pulse System, V. A. Petrov 202 305

THEORY OF PROBABILITY AND ITS APPLICATIONS
1963, VOL. VIII, NO. 2

CONTENTS

Asymptotically Pearson transformations ..... L. N. Bol'shev 121

On the distribution function of the time of first exit ..... I. S. Zhitomirskii 147

A. N. Kolmogorov's work in probability theory (on the occasion of his 60th birthday)
B. V. Gnedenko and N. V. Smirnov 157

SHORT COMMUNICATIONS

Limit theorems for dissipative flows ..... Yu. K. Belyaev 165

Periodically and almost-periodically correlated random processes with continuous time parameter ..... E. G. Gladyshev 173

On the convergence of sums of random step processes to a Poisson process
B. Grigelionis 177

On a comparison of two probabilities ..... Yu. G. Pollyak 182

On a searching problem ..... O. V. Staroverov 184

Properties of the Wold decomposition of stationary stochastic processes
E. A. Robinson 187

An estimate of the compounding distribution of a compound Poisson distribution
H. G. Tucker 195

A remark on confidence estimation by the method of least squares
G. N. Brovkovich and Yu. V. Linnik 200

Generalization of Sperner's theorem on the number of subsets of a finite set
L. D. Meshalkin 203

On extrapolation of a random field satisfying the wave equation .. M. I. Fortus 204

On the law of large numbers for Markov processes ..... M. G. Shur 208

Summary of papers presented at meetings of the Seminar on mathematical statistics at the Mathematical Institute of the Academy of Sciences, USSR, 1962..... 212

Printed for the Society for Industrial and Applied Mathematics by
N.V. Erven P. Noordhoff's Uitgeversmaak, Groningen, The Netherlands

THEORY OF PROBABILITY AND ITS APPLICATIONS
1963, VOL. VIII, NO. 4

CONTENTS

Brownian Motion With a Several-Dimensional Time.....H. P. McKean, Jr. 335

On Homogeneous Continuous Markov Processes That Are Martingales
A. V. Skorokhod 335

On Estimation of the Special Function of a Stationary Gaussian Process
I. A. Ibragimov 366

On the Detection of Disorder in a Manufacturing Process. II..A. N. Shiryaev 402

SHORT COMMUNICATIONS

On a Topologization of the Set of Interior Consistent Families of Measures
N. N. Vorob'ev 414

Markov Measures and Markov Extensions.....N. N. Vorob'ev 420

On Higher Order Spectral Measures of Ergodic Stationary Processes
Ya. G. Sinai 429

On Conditions for Ergodicity of Stationary Processes in Terms of Higher Order Moments .....A. N. Shiryaev 436

Printed for the Society for Industrial and Applied Mathematics by
N.V. Erven P. Noordhoff's Uitgeversmaak, Groningen, The Netherlands

C-342

WORKS OF THE INSTITUTE OF BIOLOGY, SVERDLOVSK, ACADEMY OF SCIENCES USSR.
(AKADEMIYA NAUK SSSR. INSTITUT BIOLOGII, SVERDLOVSK. TRUDY)

1962, NO. 28

MATERIALS ON THE STUDY OF SLORA AND VEGETATION OF THE URAL

TABLE OF CONTENTS

Page

Meadows of the River Valleys of the Ivedl' Urals, by M. M. Storozheva 1

Geobotanical Description of the Polar Urals, by V. B. Kuvayev 55

Types of Swamp Forests in the Il'men' Reservation and Their Dynamics, by Yu. Z. Kulagin 63

The Use of the Forest Vegetation of the Groves Along the Pyshma River in the Transural for Grazing Land, by R. S. Zubareva 82

Pollens and Spores of Lignitic Clays of Lake Smolino, by L. A. Kupriyanova 125

The Rust Fungi of the Urals, by Z. A. Demidova 162

WORKS OF THE INSTITUTE OF PHYSIOLOGY, ACADEMY OF SCIENCES USSR
(AKADEMIYA NAUK SSSR. INSTITUT FIZIOLOGII. TRUDY)

1959, VOL. 8

PROBLEMS OF PHYSIOLOGY AND PATHOLOGY OF HIGHER NERVOUS ACTIVITY IN MAN AND ANIMAL

TABLE OF CONTENTS

Page

A New Method for Studying the Physiology and Pathology of Speech, by V. V. Alyakrinskiy 1

Contemporary Data of the Investigation of the Activity of the Biological Acoustic Analyzor and our Problems, by G. V. Gershuni 20

Blood Pressure Changes in Dogs in Experiments with Conditioned Food Reflexes to an Electrical Current, by L. K. Danilova . 32

Physiological Mechanisms of Certain Forms of Generalization in Young Children, by Ye. N. Degtyar', A. N. Znanenskaya, and M. M. Kol'tsova 49

Changes in the Adjusting Reactions of Dogs upon Destruction of the Vestibular Apparatus and Extirpation of the Motor Region of the Cerebral Cortex, by V. A. Kislyakov 56

Characteristics of the Lactation Reflex in Cows with a Different Force of the Cortical Nervous Processes, by E. P. Kokorina 67

Dynamics of the Cortical Processes under Suggestion for a Given Period of Time, by I. I. Korotkin and M. M. Suslova 76

Data on the Physiological Characteristic of Nervous System Types by V. K. Krasuskiy 91

A Study of the Effect of Total-Body X-Irradiation on the Higher Nervous Activity of Dogs, by N. Ya. Lipatova and F. P. Mayorov 109

Electrophysiological Investigation of Conditioned and Unconditioned Reflexes in Man under Various Stages of Hypnosis, by A. I. Marenina 119

Page

The Daily Dynamics of the Conditioned Reflexes in Dogs, by V. V. Savvateyev 125

Differentiation of Conditioned Proprioceptive Stimuli after Bilateral Excision of the Frontal Lobes and Other Cortical Zones, by N. A. Shustin 138

Problems of the Comparative Physiology of Higher Nervous Activity

Data from a Study of the Dynamics of the Conditioned Reflex Activity of Representatives of Certain Classes of Vertebrates, by A. V. Baru, O. P. Bolotina, N. A. Krasuskaya, Ye. V. Lukina, B. V. Pavlov, N. V. Prazdnikova, V. I. Saf'yants, and D. A. Chebykin 152

Page
1 Motor Food Conditioned Reflexes to a Chain of Stimuli in Certain Vertebrates, by A. V. Baru, O. V. Malinovskiy, N. P. Ovchinnikova, N. V. Prazdnikova, and V. V. Chernomordikova 167

The Problem of the Effect of the Magnitude of Food Reinforcement
20 on the Number of Conditioned Reflexes in Rabbit Experiments by A. V. Baru and D. K. Saydasheva 179

The Dynamics of Trace Conditioned Reflexes in Sacred Baboons
39 (Papio Hamadryas) Against a Background of the Cyclic Changes in the Sexual Sphere, by N. A. Krasuskaya and L. A. Firsov 194

49 The Problem of the Role of the Brain in the Function of Animal Reproduction. Report No. 1. Observations of Female Dogs Deprived of Distance Receptors, by L. V. Lobanova 204

56 Biology of the Conditioned Reflex, by M. Ye. Lobashev 223

67 The Dynamics of Food Conditioned Reflexes of Birds at Various Stages of the Reproductive Cycle, by Ye. V. Lukina 229

76 The Formation of Motor Conditioned Reflexes in Chimpanzees to Speech, by F. P. Mayorov and L. A. Firsov 243

91 Conditioning of the Mobility of the Nervous Processes in the Honeybee, by I. A. Nikitina 255

109 The Effect of Disconnecting the Visual Receptor in a Series of Generations on the Conditioned Reflex Activity of Mice, by G. A. Obraztsova and V. K. Fedorov 269

119 Regulation of Respiration in Puppies at Different Age Periods After a Simultaneous Extirpation of Distance Receptors, by A. V. Pogredkova 280

A Study of the Individual and Breed Characteristics of the Higher Nervous Activity of Chickens, by V. V. Ponomerenko . 291

Page

The Conditioned Reflex Activity of Fish upon Repeated Use of One and the Same Stimulus in the Experiment, by N. V. Prazdnikova 304

Certain Results of Ecological and Physiological Investigations, by A. D. Slonim 328

The Vestibular Motor Conditioned Reflexes in Normal and Labyrinthectomized Rabbits, by Peysen Tuleayev 342

Conditioned Reflexes in Bees to a Chain of Visual Stimuli, by Ye. G. Chesnokova 354

Problems of Cortico-Visceral Physiology and Pathology

The Relationship of Conditioned and Unconditioned Reflexes in Kidney Activity of Dogs in a Neurotic State, by V. L. Balakshina 367

Functional Interrelationships Between Higher Divisions of the Central Nervous System and the Parathyroids, by N. F. Baranova 375

The Insulin Content in the Peripheral Blood when the Pathway of its Uptake into the Portal Vein is Changed, by M. F. Belovintseva 387

The Interoceptive Component in the Developmental Mechanism of Certain Pathological States, by I. Ye. Ganelina, N. G. Zimovaya, O. B. Il'inskiy, V. A. Lebedeva, V. K. Martynyuk, O. S. Nerkulova, S. S. Musyashchikova, I. P. Myagkaya, L. I. Osadchiy, T. V. Popova, I. S. Serebrennikov, Z. I. Tyutryumova, V. A. Chernichenko, and A. Ya. Yaroshevskiy . 394

An Analysis of Mechanisms Damaging the Conditioned Reflex Function of the Central Nervous System Induced by Ionizing Radiation, by I. M. Gorbunova and N. A. Rokotova 417

The Undulatory Nature of Autonomic Disorders in Experimental Neurosis, by I. T. Kurtsin 430

The Uterine Signal Dynamics in Various Stages of the Dog Sexual Cycle, by L. I. Lebedeva 444

Effect of Extirpation of Sections of the Anterior Cerebral Cortex on the Functions of the Intact and Partially Resected Stomach in Drug Assays, by D. V. Mangina 452

Recording of the Motor Activity of Isolated Pouches of the Lesser and Greater Curvatures as a Method of Analyzing the Motor Activity of the Stomach, by Ye. M. Matrosova and O. V. Solodkina 466

Page

A Change in the Higher Nervous Activity of Dogs Relative to the Blood Sugar Level in the Norm and in Diabetes, by M. I. Mityushov 482

Gas Exchange in the Pathology of Higher Nervous Activity in Dogs with a Strong and Weak Type of Nervous System, by V. V. Nikolayeva 494

Certain Results of Investigations of Vascular Conditioned and Unconditioned Reflexes, by A. A. Rogov 504

The Role of the Higher Divisions of the Central Nervous System, the Age Factor, and Sexual Hormones in the Pathogenesis of Experimental (Alloxan) Diabetes, by I. M. Sokoleverova . . 519

Certain New Data on the Nervous Regulation of the Work of Digestive Organs, by A. V. Solov'ev 535

Vascular and Food Conditioned Reflexes After Castration, by T. S. Sotnichenko 548

Functional State of Various Divisions of the Nervous System in Painful Trauma and in Radiation Lesion, by V. S. Sheveleva 561

Problems of the Physiology of the Peripheral and Central Nervous System

Dependence of the Hormonal Effect on the State of Excitability of the Central Nervous System, by E. Sh. Ayrapet'yants, L. I. Lebedeva, and I. M. Fel'berbaum 580

Regulation of the Secretory and Motor Activity of the Mammary Gland, by I. A. Baryshnikov 591

Adaptation and Sensibilization of Nervous Formations During Development of Parabiosis, by L. L. Vasil'ev 610

Changes in the Functional Properties of Striated Muscles and Atrophy upon Transection of the Spinal Cord at Various Levels, by N. A. Galitskaya 628

Blood Calcium Level and Reaction to Adrenalin of the Nictitating Membrane, by M. P. Martynenko 642

Electrophysiological Characteristics of Efferent and Afferent Pulsations in the Cardiac Reinforcing Nerve, by Ye. G. Petrova 648

Comparative Electrophysiological and Functional Characteristics of Relatively Slow and Rapid Oscillations of the Potentials of Afferent Impulses in Kidney Nerves, by Yu. L. Pines . . 658

Certain Characteristics of Basal Metabolism and Specific Dynamic Effect of Feed in Cattle, by A. A. Skvortsova and I. I. Khrenov 672

Page

Effect of Ionized Air on Arterial Pressure of Animals with Cross Circulation in Vagotomy of the Respiratory Tract, by A. M. Skorobogatova 685

Problems of the Pharmacology of Higher Nervous Activity

Effect of Diethylaminomethyl Caffeine on the Conditioned Reflex Activity of Dogs, by T. M. Kucherenko 698

Changes in Higher Nervous Activity of Dogs under Different Doses of Noctal, by N. S. Sovronov 706

Changes in the Higher Nervous Activity of Dogs in Chronic Use of Barbamyl, by M. S. Sofronov and G. I. Tsobkallo 717

Results of Pharmacologic Investigations Performed by the Method of Conditioned Reflexes, by G. I. Tsobkallo 731

Problems of Clinical Physiology

Content of Riboflavin in the Blood of Certain Groups of Neurotic and Psychotic Patients, by A. S. Bezuglaya 747

Impairment of the Respiratory Rhythm in Neurotic Patients, by M. A. Zhilinskaya 754

The Role of the Nervous System in the Development and Course of Atherosclerosis, by B. V. Il'inskiy 765

Treatment of Patients with Presenile Psychosis, by Yu. G. Kozlov 788

Disorders in the Abstraction and Naming of Colors in Certain Focal Lesions of the Brain, by Ye. P. Kok 795

Problems of the Clinical Experimental Investigation of the Emotional Aspect of Patients with Reactive Psychosis, by L. A. Lipskaya 804

The Pathology of Cortical Activity in Organic Brain Diseases with Neurotic and Psychopathic Disorders, by V. K. Fedorov 815

Problems of the Biochemistry of the Central Nervous System

Metabolism of Certain Phosphorous Compounds in Various Strata of the Brain, by M. N. Baranov 827

Phosphorous Metabolism in Cows at Different Periods of Lactation by V. N. Borsuk 841

Page

The Effect of the Nicotinic Acid Load on the Content of the Total Nicotinic Acid in Human Blood, by L. N. Bulovskaya, S. A. Dmitriyeva, A. M. Petrun'kina and L. I. Silina . . . 851

Change of Nitrogen Metabolism in the Brain with Hepatic Disorders, by N. V. Veselkin and B. G. Gordon 860

Reflection of Energy and Plastic Metabolisms in the Renewal of the Biochemical Substrate of Nervous Tissue, by G. Ye. Vladimirov 870

Effect of Ionizing Radiation on Certain Aspects of the Phosphorous Metabolism of the Brain, by S. V. Gasteva, O. V. Malinovskiy, L. F. Pomazanskaya, I. N. Ulybina, and D. A. Chetverikov 882

New Data on the Evolution of Phosphorous Metabolism of the Brain by Ye. M. Kreps 902

The Determination of Nicotinic Acid in Small Amounts of the Blood by the SF-4 Quartz Spectrophotometer, by A. M. Petrun'kina 913

Problems of the Morphology of the Nervous System

The Special Type of Fibers Entering the Cerebellar Cortex, by A. S. Iontov 926

Correlative Histogenesis of Certain Links of the Olfactory Reflex Arc of Rabbits, by Ye. I. Kalinina 937

Receptor Neurons in the Autonomic Nervous System, by N. G. Kolosov 952

The Structure of Afferent Plexuses in the Human and Animal Heart by A. Ya. Khabarova 974

Chronicle 987

Author

Abakumov,
Abdeev, M.
Abe, K.
Abe, Y.
Abel, G.
Abramov, A
Abramov, I
Abramov, V
Abramson,
Adachi, S.
Adfel'dt, N
Adloff-Bach
Adloff, J.
Ageikin, V
Aguntsev,
Agranovich
Aljimina, I
Ainbinder,
Aizerman,
Aljisaka, E
Akimov, Y
Akulovich,
Alabyshev,
Albegov, N
Albert, H.
Alderson,
Aleksandro
Alekseenol
Alekseev,
Alekseev,
Aleksenko,
Aleshchenk
Aligadzhie
Alkhazov,
Al'shits, I
Amaev, A.
Amanzhulo
Amkin, P.
Amosov, I
Anders, H
Anderson,
Ando, K.
Ando, T.
Andreev,
Androva,
Andryanki
Anempodi
Angelino,
Anirkhanc
Ans, A. M
Anureev,
Apollov, I
Arata, M
Arens, H
Argence,
Ariflov, I
Aristarkh
Arkhange
Arkhipov,

Arlman,
Artamkin
Artsikhov
Artsimov
Ashepa,
Astashen
Astashen
Augustin,
Averkiev
Aver'yan
Avgustin
Avram,
Avramen
Baba, H.
Babaryki
Bachman
Badaeva,
Bagrov,
Bain, A.
Bakhshiy
Balabanc
Balacean
Balandin
Balebanc
Balkind,
Ball, G.
Bang, B.
Bannov,
Baraban
Baranov
Bardizh,
Barmin,
Barmnov

AUTHOR INDEX

Author	Page
Abukumov, V. I.	636
Abdeev, M. A.	676
Abe, K.	639
Abe, Y.	624
Abel, G.	626
Abramov, A. I.	670
Abramov, I. V.	603
Abramov, V. I.	664
Abramson, I. S.	672
Adachi, S.	656
Adfel'dt, N.	680
Adloff-Bacher, M.	667
Adloff, J. -P.	667
Ageikin, Yu. S.	673
Aguntsev, K. K.	B-17
Agranovich, Z. S.	659
Aijimina, I.	657
Ainbinder, N. M.	658
Aizerman, M. A.	613
Ajisaka, E.	B-17
Akimov, Yu. K.	622
Akulovich, N. K.	B-17
Alabyshev, A. F.	609
Albegov, N. A.	627
Albert, H.	646
Alderson, T.	649
Aleksandrov, Yu. A.	621
Alekseenok, A. Ya.	670
Alekseev, N. I.	603
Alekseev, S. M.	659
Alekseenko, G. V.	638
Aleshchenko, S. P.	677
Aligadzhiev, G. A.	646
Alkhazov, D. G.	617
Al'shits, L. M.	610
Amaev, A. D.	644
Amanzhulov, S. A.	B-19
Amkin, P.	613
Amosov, N. M.	666
Anders, H.	617
Anderson, A. W.	639
Ando, K.	655
Ando, T.	663
Andreev, B. A.	656
Androva, N. A.	635
Andryankin, E. I.	622
Anempodistov, V. P.	651
Angelino, P. F.	643
Anirkhanov, Kh. I.	615
Ans, A. M. d'	676
Anureev, I.	651
Apollov, B. A.	643
Arata, M.	630
Arens, H.	641
Argence, E.	641
Arifov, T.	B-17
Aristarkhov, N. N.	642
Arkhangel'skii, B. A.	670
Arkhipov, M.	644
	668
	669
	670
	671
Arlman, E. J.	622
Artamkin, V.	669
Artsikhovskaya, E. I.	604
Artsimovich, L. A.	B-17
Ashepa, M. B.	603
Astashenkov, P.	669
Astashenkov, P. T.	677
Augustin, J. U.	651
Averkiev, V. P.	672
Aver'yanov, K.	647
Avgustinovich, G. I.	615
Avram, C.	663
Avramenko, L. F.	654
Baba, H.	628
Babarykin, N. N.	663
Bachmann, L.	627
Badaeva, T. A.	674
Bagrov, N. A.	630
Bain, A.	639
Bakhshiyan, F. A.	659
Balabanov, E. I.	655
Balaceanu, J. -C.	623
Balandin, A. A.	627
Balebanov, V. M.	672
Balkind, Ya. V.	638
Ball, G. O.	642
Bang, B.	603
Bannov, A. T.	668
Barabanov, I. R.	632
Baranov, I. Ya.	661
Bardizh, V. V.	668
Barmin, V. V.	673
Barmnovskii, O. A.	
Barth, W.	639
Barthoux, A.	B-17
Batyata, V. I.	603
Bauman, L. K.	614
Bazhanova, N. V.	610
Bazhenov, L. B.	677
Beauvallet, M.	615
Becker, G.	658
Bedenashvili, G. G.	603
Beears	622
Beisswänger, H.	633
Bekasova, O. D.	609
Belashchenko, T.	644
Belavtseva, E. M.	655
Belevtsev, Ya. N.	635
Belinskaya, G. L.	654
Belitskaya, E. Ya.	607
Bell, L. H.	622
Belov, N. V.	675
Belyaeva, L. V.	636
Belyanin, Yu. P.	642
Ben'yaminovich, M. B.	642
Berezin, I. V.	622
Berg, I. A.	680
Berge, C.	659
Bergmann, G.	674
Berlin, A. A.	658
Berngard, K. A.	647
Bertrand, G.	608
Beshkov, A.	630
Beydon, J.	669
Bianchi, E.	659
Bibergal', A. V.	671
Bibik, V. F.	673
Bickel, H.	609
Bilde, H.	649
Billet, R.	640
Birckenbach, L.	622
Birman, M. Sh.	659
Biro-Sugar, E.	630
Bishara, E. I.	615
Blaise, A.	668
Blanchard, M.	623
Blokh, E. L.	678
Blyumberg, E. A.	622
Bochkova, O. P.	B-17
Bock, R.	639
Bodner, V. A.	B-17
Bogomolov, G. V.	647
Bohlmann, F.	622
Böhme, H.	615
Bonhoeff, K. F.	628
Bonitz, E.	622
Bonnivard, G.	666
Bopp, F.	669
Borisov	B-19
Borisov, S.	647
Borodulin, M. I.	632
Borovko, N. N.	635
Borowski, K.	663
Borutskii, E. V.	618
Borzyak, P. G.	642
Bossi, F.	659
Botta, J. -M.	613
Bouche, J.	607
Boulez, N.	613
Bourdais, J.	622
Bourgeois, Y.	628
Bradeanu, P.	630
Bragard, A.	665
Brard, M. D.	615
Brauer, G.	B-17
Brauer, M.	632
Braunwalder, A.	610
Breer, K.	655
Bresler, L. S.	622
Bresler, S. E.	609
Bret, A. J.	611
Briefs, H.	665
Brion, G.	672
Broothaerts, J.	670
Brunnsteiner, F.	651
Bubser, W.	652
Bubyr, N.	641
Bukatin, E. A.	654
Bukin, A. I.	654
Bunina, T. L.	613
Burckhardt, W.	613
Burmistrov, S. I.	622
Burshtein, A. I.	B-17
Busch, W.	640
Cagnasso, A.	623
Cambi, L.	620
	623
Cammozzo, G.	670
Carl, H.	B-17
Cathala, J.	639
Chakaley, K. N.	B-18
Chang, Fu-tang	628
Chang, Hui-min	628
Chang, Jen-en	623
Chang, Tse-wei	616
Charakhch'yan, A. N.	604
Chaus, V. M.	602
Chauvel, A.	623
Chegolin, P. M.	B-18
Ch'en, Wen-shu	619
Cheng, Ta-ta	603
Chentsov, B. V.	613
Cherepovitskii, V. A.	643
Cherkashina, L. G.	655
Chernikov, D. M.	673
Chevalier, P. J.	639
Chevance, L. G.	607
Chevillard, L.	609
Ch'ien, Hsüeh-sen	678
Chin, Jui-ao	613
Chizhikov, D. M.	666
Chondkaryan, O. A.	613
Chou, Pi-cheng	625
Chu, Shou-ho	613
Chubinidze, B. N.	645
Chukhrov, F. V.	633
Chumakova, M. Ya.	615
Cindro, N.	668
Cirla, P.	613
Claussen, F.	663
Clement, G.	623
Clerc, P.	607
Courtieu, A. -L.	613
Cremer, E.	627
Cristescu, N.	661
Croning, J.	655
Dagis, R. Ya.	672
Dahlquist, E.	642
Daniel, E.	672
Darnaud, C.	613
Dauvillier, A.	B-17
Davoyan, A.	667
Dawson	655
Debrie, G.	B-17
Decock, J.	670
Delcroix, J. -L.	B-17
Demchenko, N. S.	673
Dement'ev, N. F.	630
Demidov, G. E.	611
Dem'yankov, N. V.	647
Dem'yanovich, A. N.	646
Denard, Y.	613
Denisov, E.	667
Denisov, E. T.	627
Derevyanko, E. A.	607
Derviz, V. D.	678
Destable, A.	658
Determann, H.	627
Dhers, V.	651
Dick, W.	665
Diewald, J.	624
Dil'man, V. M.	613
Dimroth, K.	623
Dittmann, H.	660
Dlouhy, F.	642
Dobrokhotova, M. K.	656
Dobroranykh, P.	647
Dobrovol'skii, O. V.	605
Dognola, F.	639
Doi, K.	619
	690
Dolgolenko, A. G.	668
Dolgoplosk, B. A.	622
Dolgoplosk, V. A.	624
Domanova, E. A.	642
Domrachev, G. A.	626
Donets, E. D.	668
Doroshenko, G. G.	668
Dozortseva, R. L.	617
Dracheva, N. P.	680
Drinberg, A. Ya.	673
Drozdovskii, V. F.	658
Dubina, T. L.	607
Dubinskii, P. B.	648
Dudarev, V. P.	607
Dudko, D. A.	663
Durieux, R.	611
Dyatkina, M. E.	674
Dykman, I. M.	674
Dzantiev, B. G.	622
Dzhavadyan, N. S.	611
Dzikiewicz, B.	604
Ebneth	655
Eckart, F.	674
Egorov, V. D.	672
Ehm, W.	652
Eidel'man, Z. M.	610
Eidel'stein, S. I.	615
Eidus, Ya. T.	623
El'piner, I. E.	607
Emanuel', N. M.	622
Engel, H. J.	627
Erdös, P.	B-17
Ermakov, V. A.	688
Ermolaeva, T. A.	636
Eshmanaite, N. A.	616
Esselmann, P.	620
Evstigneev, V. B.	609
Ewald, J. W.	674
Eysel, E.	630
Ez, V. V.	633
Faerman, G. P.	654
Fahlenbrach, H.	667
Fahrenbach, W.	637
Faitel'berg-Blank, R.	607
Faizulin, N.	666
Falk	655
Faludi, B.	B-17
Fan, Te-hou	616
Fan, Ts'un-yi	675
Faniev, R. D.	651
Fastovskii, V. G.	627
Fattinger, H.	645
Faust, O.	620
Favre, H.	674
Fedorenko, N	639
Feldinger	638
Feng, Tuan	675
Feofilaktov, V. V.	623
Fernandez, B.	668
Ferro, G. F.	615
Fialkov, B. S.	663
Filimonov, S. I.	611
Filippov, N. V.	668
Filippova, T. I.	668
Filonov, I. G.	666
Filyushkin, I. V.	668
Firkowicz, S.	673
Firsov, L. A.	606
Fischer, E. O.	623
Fischer, F.	651
Fleury, P.	620
Flid, R. M.	620
Floret, A.	619
Florin, A.	670
Floryuski, F. S.	622
Fonar', I.	678
Föppl, L.	641
Forni, P. V.	615
Fradkin, G. M.	671
Francesconi, A.	670
Frankevich, E. L.	655
Franssen, N.	667
Franz, W.	673
	674
Frents, G. S.	666
Frenzel, W.	652
Frey, T.	B-17
Frieser, H.	654
Fritz, H. P.	623
Frolova, N. V.	633
Fuchs, H.	610
Fujita, T.	656
Fujiwara, Y.	640
Fukutani, H.	656
Gabidzashvili, G.	647
Gaft, D. E.	633
Gainanov, A. G.	635
Gal'burt, A.	647
Galimov, N. K.	661
Gamirov, V. I.	647
Garelli, F.	623
Garger, K. S.	663
Garsoux, J.	B-17
Gassner, E.	663
Gavrilova, V. A.	609
Gellert, H. G.	627
Gelpi, L.	639
Gerasimov, V. V.	667
Germain, J. E.	623
	627
	628
Gershanovich, D. E.	633
Gerstacker, H.	629
Gerstenberg, B.	664
Gignier, J.	639
Gilg, B.	674
Gilt'burg, V.	623
Ginzburg, A. G.	603
Ginzburg, V. L.	673
Gisen, F.	663
Giudicelli, R.	615
Glagolev, V. I.	668
Glaser, H.	643
Glaser, W.	646
Glasko, V. B.	672
Glazunov, P. Ya.	629
Gleissner, G.	663
Glembotskii, I. I.	669
Glemser, O.	620
Glocker, R.	663
Glozman, O. S.	608
Glushko, A.	671
Gnedenko, B. V.	659
Godnev, T. N.	609
Godovikov, A. A.	636
Godzevich, V. G.	661
Gol'braikh, E. K.	619
Golodets, G. I.	628
Gol'tsova, L. I.	646
Goncharova, V. P.	610
Gopshtein, N. M.	673
Gorbunov, Yu. V.	630
Gordeev, D. I.	631
Görl, E.	664
Görner, P.	618
Goryukhina, T. A.	613
Goto, E.	619
Graf, H.	666
Granger, R.	623
Grebenkin, V. K.	602
Grechishnikova, L. P.	648
Gresham	622
Gribakin, G. G.	654
Grigoliuk, E. I.	661
Grigor'eva, K.	639
Grimm, H.	639
Grishchenko, V. G.	664
Grizodub, Yu. N.	662
Groshev, A. L.	672
Groszkowski, J.	673
Groves, W.	626
Gruich, D. D.	642
Gruzinov, V. K.	663
Guderley, G.	662
Guidetti, E.	615
Gukhman, A. A.	B-18
Gumargalieva, K. Z.	655
Gurinovich, G. P.	609
Guseinov, D. M.	602
	603
Gusenkov, P. V.	615
Gus'kova, M. S.	654
Gvozdev, A. A.	641
Habicht, E.	623
Hada, T.	656
Hafner, W.	623
Hagen, G.	616
Hahn, T.	630
Hama, K.	632
Hansen, N.	629
Hansen, T.	639
Hantsch, E.	662
Hantzsche, W.	662
Hanyuda, T.	655
Harada, T.	657
Harriman, B. R.	654
Hart, R.	624
Harten, H. U.	674
Hasegawa, A.	602
Hasegawa, N.	657
Hashimoto, K.	658
Hashimoto, T.	652
Hatori, A.	656
Hauffe, K.	667
Hayashi, H.	663
Hazard, R.	615
Heider, J.	624
Heinemann, B.	615
Hellmig, E.	654
Henrici-Olive, G.	624
Henrion, W.	674
Hertel, H.	B-18
Herrmann, P.	648
Heyboer, J.	624
Heywang, W.	675
Higuchi, K.	632

Author	Page
Hilsch, R.	675
Hiltscher, R.	641
Hindin, S. G.	628
Hippel, A. V.	B-18
Hirayama, T.	655
Hirooka, M.	656
Hlavac, J.	651
Hoeffding, W.	682
Hofmann, F.	619
Hoki, R.	602
Höller, P.	665
Holzmann, H.	615
Honda, S.	690
Hooper, C. W.	609
Hoppe, P.	655
	656
Horie, S.	627
Horn, G.	629
Horstmann, D.	663
Hoth, E. G.	653
Houdremont, E.	667
Hrbek, M.	608
Hsü, Tseng-chi	665
Hsu, Tsu-po	613
Hsu, Yu-shan	675
Huang, Ch'iao-hsiang	603
Hugel, G.	624
Huisman	609
I, Jui-shih	619
Iandelli, A.	620
Ibragimov, F. I.	616
Ibragimova, V. S.	616
Ignat'ev, M. A.	644
Ikkaku, Y.	658
Ikramov, G.	642
Ilg, J.	646
Il'ichev, L. F.	680
Il'in, V. B.	678
Imai, K.	624
Imbert, P.	639
Imhausen, K. -H.	652
Inose, H.	673
Ioffe, A. Z.	616
Ipekdzhiyan, V. M.	611
Ishihara, M.	656
Ishiwari, O.	656
Ishizuka, O.	657
Israilewitsch, E.	614
Istomin, G. A.	654
Ito, K.	632
Ivanenko, A. G.	631
Ivanov, A. D.	603
Ivanov, A. Ya.	646
Ivanov, B. M.	654
Ivanov, F. M.	629
Ivanov, O. S.	663
	674
Ivanova, L. N.	611
Ivanova, O. V.	661
Ivashkevich, A. A.	676
Iwasaki, K.	656
Jacoby, G.	638
Jaeckel, G.	B-18
Jammers, H. C.	653
Jänecke, E.	648
Jansen	622
Janssen, K.	667
Jen, Ping-chun	616
Jerchel, D.	624
Jittlov, V. S.	680
Jores, J.	616
Josephy, B.	675
Kachan, A. A.	652
Kahan, T.	B-17
Kai, F.	662
Kaime, K.	657
Kaiser, R.	655
Kalabukhov, F.	602
Kalinowski	638
Kalistratova, I. N.	642
Kalk, W.	648
Kalman, E. C.	631
Kamio, K.	657
Kantyka	624
Kao, Yun-ch'iu	613
Kapchigashev, S. P.	670
Kaplan, S. A.	B-18
Karaushev, A. V.	636
Kardashev, N. S.	605
Karol', I. L.	B-18
Karpovich, M. B.	603
Kasatkina, A. P.	608
Kasharskii, E. G.	643
Kashin, N. V.	642
Kataev, L. G.	B-18
Kathen, H.	609
Katorzhnov, N. D.	652
Kats, M. Ya.	636
Katsumata, S.	620
Kauer, J. C.	621
Kavetskiy, V. I.	672
Kawai, Y.	673
Kawano, T.	620
Kawasaki, T.	610
Kazachkovskii, O. D.	670
Kazanskaya, N. F.	622
Kazanskii, A. B.	637
Kazanskii, V. I.	633
Kazin, I. V.	676
Keberle, H.	609
Keller, H. M.	608
Kemmner, K.	624
Keniya, T. Sh.	603
Kerimov, D. A.	680
Keropyan, K. K.	B-18
Kesaev, I. G.	673
Keune, H.	629
Keyssner, E.	648
Khain, V. E.	633
Khaustov, S.	602
Khenkin, M. L.	664
Khodasevich, E. V.	609
Khrushchev, V. G.	671
Kibartas, V. V.	669
Kibel', I. A.	631
Kichigin, A. M.	676
Kil'chevskii, N. A.	B-18
Killig, F.	648
Kim, G. V.	676
Kirillin, V.	678
Kirschbaum, E.	640
Kitaigorodskii, A. I.	655
Klenova, M. V.	636
Klepikov, M.	666
Kleshchev, G. V.	636
Klimov, D. M.	661
Klimova, V. S.	652
Klinger, F.	B-18
Klinov, F. Ya.	631
Klyashtorin, L. B.	637
Knacke, O.	675
Knothe, W.	649
Knunyants, I.	680
Ko, K.	658
Kobayashi, T.	632
Kobayashi, Y.	657
	658
Kobozev, N. I.	609
Kobrin, M. M.	641
Koch, H.	624
	645
	675
Kocherezhkin, V. G.	607
Kodyukov, V. M.	B-17
Kojima, S.	657
Kolokol'tsov, N. A.	661
Komanov, A.	670
Komers, R.	619
Komin, A.	681
Komissarov, G. G.	609
Komochkov, M. M.	670
Kondo, H.	663
Kondrashev, D. D.	681
Konobeevskii, S. T.	B-18
Konovalov, N. W.	613
Konyukhov, V. G.	611
Koporulin, V. I.	633
Koppenhofer, G.	603
Kopyrin, I. A.	663
Korbl, J.	619
Korenman, I. M.	B-18
Kornbaum, S.	656
Korneva, E. D.	654
Korniov, K. A.	652
Korolev, A. I.	638
Korolev, M.	661
Koroleva, V. A.	667
Korolyuk, V. S.	659
Korshak, V. V.	624
Korzhinskii, D. S.	636
Korzhuev, A. S.	637
Kosterhon, K. J.	656
Kostkuba, J.	666
Koton, M. M.	622
Kotz, S.	682
Koutecky, J.	628
Kovacsics, J.	611
Kovalevskii, A. F.	631
Kovarskaya, B. M.	656
Koyanagi, K.	648
Kozuki, E.	625
Kozyrev, B. P.	673
Kracht, J.	616
Krächter, H.	664
Kraevoi, S. Ya.	611
Krakovskii, N. I.	617
Kramarenko, V. P.	609
Krasavtsev, V. S.	646
Krasheninnikov, G. F.	633
Krasil'nikova, E. A.	654
Krasnoselskii, M. A.	B-18
Krasnova, V. S.	634
Krasnovskii, A. A.	609
Krasovskii, N. N.	659
Kraus, K.	622
Krauss, D.	B-18
Krebs, H.	624
Kreneva, R. A.	609
Krestnikov, Yu. S.	668
Kreulitsch, H.	666
Krieger, F. J.	680
Krivich, S. S.	623
Krivoshchekov, G. V.	642
Kröger, C.	651
Kropachev, V. A.	624
Kropacheva, E. N.	622
Kroshkin, M. B.	605
Krutikhovskii, V. G.	647
Kubik, F.	648
Kubilyus, J.	659
Kubo, R.	B-18
Kuck, C. H.	640
Kudryavtsev, A.	640
Kudryavtsev, E. V.	B-18
Kudryavtsev, G. I.	652
Kudryavtseva	637
Kühl, H.	649
Kühlhorn, H.	627
Kühnau, J., Jr.	616
Kuklin, A. I.	622
Kuksa, I. N.	612
Kuksenko, B. V.	662
Kulakovskaya, N. Ya.	627
Kulikovskii, L.	678
Kulish, E. E.	671
Kumai, M.	632
Kung, V.	616
Kuo, Shang-p'ing	678
Kuramoto, S.	627
Kurbangalina, R. Kh.	628
Kurono, H.	602
Kusanagi, T.	602
Kushner, V.	647
Kusov, V. N.	613
Kutateladze, S. S.	651
Kutsevalov, V. M.	643
Kuzina, A. F.	669
Kuz'min, V. V.	646
Kuznetsov, P. I.	660
Kuznetsov, V. I.	619
Kuznetsov, V. V.	672
Kvasha, Ya.	661
Kvitnitskii, M. E.	608
Lafuma, H.	649
Lakhtin, L. M.	643
Lanin, A. N.	617
Lapenko, V. L.	625
Lavergne, M.	637
Lavrukhin, S.	681
Lazareva, E. N.	615
Lebedev, V. I.	636
Lebedev, Ya. S.	673
Lebesque, H.	B-18
Lecomte, J.	674
Lecuir, R.	649
Legendre, P.	666
Lein, V.	681
Leipunskii, A. I.	670
Leites, F. L.	617
Lelichenko, M.	681
Lemberg, I. Kh.	610
Lenz, D.	664
Leonidov, D.	639
Leont'ev, A. I.	651
Leroux-Hugon, P.	675
Leshchinskii, N. I.	671
Lesnitskii, M. L.	646
Leupold, D.	673
Levantovskaya, I. I.	656
Levi, S. M.	654
Levina, N. K.	664
Lévy, J. -M.	612
Li, Ch'i	675
Li, Sze-kuang	633
Li, Yu-ch'ang	661
Li, Yung-shan	678
Liang, Chen-lan	603
Libin, A. L.	647
Librovich, V. B.	643
Lieser, T.	624
Likhachev, N. V.	603
Lin, Jung	611
Lin, Lan-ying	643
Ling, Yu-ch'en	625
Liogon'kii, B. I.	658
Lipskii, Yu. N.	605
Lis, K.	620
Litvin, F. F.	609
Liu, Ch'eng-wen	625
Liu, Tz'u-ch'un	678
Lobov, G. T.	646
Logachev, Yu. I.	644
Lohmar, W.	651
Lokhmachov, V. F.	652
Lonjid, N.	632
Loosjes, R.	628
Losev, I. P.	625
Lowenberg	640
Lüben, G.	627
Lubyaniskii, G. D.	611
Luchka, A. Yu.	B-18
Ludera, L.	649
Ludke, W.	675
Lunin, A. F.	626
Lur'e, A. I.	659
Lutz, H.	666
Luzin, N. N.	660
Lyubimova, T. Yu.	629
Lyuboshits, V. L.	668
Maas, H.	664
Maatsch, J.	663
	664
Maeda, S.	656
Maeno, H.	658
Maiofis, I. M.	B-18
Maisov, A. I.	605
Maistrakh, E. V.	614
Makarchenko, A. F.	614
Makarov	B-19
Makunina, A. A.	633
Malievskii, A. D.	622
Malkina, R. L.	661
Mal'tsev, V. M.	643
Manecke, G.	628
Manevich, V. A.	660
Mann, R.	650
Manunta, G.	610
Marchenko, V. A.	659
Marchuk, G. I.	631
Marget, W.	614
Margulis, U. Ya.	671
Marisov, B.	644
Markov, A. A.	603
	660
Markus, E. K.	636
Marshak, I. S.	672
Martin, F.	619
Martin, H.	627
Marwedel	649
Masaki, S.	640
Mash, V. A.	660
Maslova, T. G.	610
Masse, P.	B-18
Massino, S.	614
Mathieu, J.	B-19
Matsuda, T.	634
Matsui, H.	625
Matsujima, H.	620
Matsumoto, Y.	658
Matting, A.	638
Matyshev'ka, M. S.	612
Maugeat, J.	668
Maurel, R.	627
	628
Mazurov, V. I.	610
Mecke, P.	649
Medici, L.	615
Meerwein, H.	625
Meguro, K.	625
Mehnert, K.	681
Mel'nik, B. D.	640
Menzel, H.	637
Merseburg	640
Mesarskii, N. K.	616
Meshkovskii, A. G.	668
Meunier, G.	665
Meyer, G.	664
Meyer, K.	627
Mezenov, A. V.	673
Mezhova, R. V.	647
Miesserov, K. G.	628
Mikei, N. I.	681
Mikhailov, A. I.	680
Mikhailov, S. I.	647
Mikhailov, V.	670
Mikhailov, V. V.	616
Mikhant'ev, B. I.	625
Miksch, J.	645
Milliken, T. H.	628
Millionshchikov, M.	678
Mills, G. A.	628
Minaev, E.	681
Minchenkova, B. I.	611
Minck, R.	612
Mineev, V. G.	604
Ming, Nai-pen	675
Mirolyubova, Z. A.	647
Mittel'shtedt, A. A.	614
Mityakov, N. A.	643
Mityakova, E. B.	643
Mityashev, B. N.	B-19
Miyake, Y.	656
Miyatsu, Y.	655
Miyoshi, S.	640
Mkrtychev, M.	670
Mogarovskii, V. V.	634
Moinov, S. G.	675
Moiraghi-Ruggenini, A.	612
Mol'derf, T. D.	603
Monin, A. S.	637
Monteil, R.-G.	616
Moreau, G.	613
Morel, C. -A.	616
Morimoto, G.	657
Morimoto, S.	656
Moritz, E.	664
Morozov, F. N.	646
Morozov, Yu. V.	622
Morozovskii, V.A.	642
Moseviskii, M. I.	609
Moskvichev, G. S.	667
Motzkin, T.	660
Mouillé, P.	615
Mozzhukhin, A. S.	B-19
Mühlhausen, C.	655
Mukhin, K. N.	B-19
Mukhina, E. P.	613
Mukhutdinov, A. M.	629
Mukoyama, E.	658
Müller, E.	656
Murata, K.	602
Muravov, I. V.	608
Muscholl, E.	616
Mussa, C.	640
Mustafaev, G. A.	603
Myl'nikov, V. G.	607
Nacken, R.	649
Nagasawa, M.	625
Nagase, S.	628
Nagel, K.	627
Nagiev, M. F.	640
Nakaguchi, K.	656
Nakajima, M.	602
Nakamura, H.	608
Nakanishi, M.	656
Nakano, S.	656
Nasini, A.	640
Natta, G.	656
	658
Nau, J.	623
Nau, P. F. G.	623
Naumenko, I.	670
Naumov, V. A.	627
Nazarchuk, M. N.	B-19
Nechaeva, I. D.	613
Nefedova, E. F.	629
Nekrasov, E. M.	634
Nekrasov, L. I.	609
Nekrasova, V. A.	625
Nelson, K. V.	622
Nesmeyanov, A.	670
Nestorov, G.	605
Neubauer, G.	623
Neumeister, K.	617
Neusser, H.	B-19
	658
Nevskii, V. A.	634
Nicoloiu, E.	666
Nikitin, N. M.	634

Author	Page
Nikitina, A. P.	622
Nikolaev, A.	643
Nikolaev, N. I.	624
Nishikawa, G.	625
Nitto, M.	655
Nolle, E. L.	672
Noro, T.	657
Nose, A.	653
Novakova, A.	608
Novikov	B-19
Novikov, A. N.	664
Nowotny, H.	628
Nultsch, W.	B-19
Numa, Y.	625
Nuzhdin, N. I.	617
Obukhov, A. M.	637
Oden, S.	649
Oeff, K.	608
Oganyan, A.	647
Ogiwara, S.	632
Oi, Y.	602
Okado, H.	657
Okawara, R.	625
Okumura, J.	653
Oleinik, O. A.	660
Olisov, B.	644
Olivé, S.	624
Omae, C.	657
Ordyan, M. B.	623
Orlov, M. V.	647
Orlova, Z. I.	617
Ornatskii, A. P.	676
Orthner	626
Osennii, V. S.	602
Ostrowski, A.	B-19
Ouchi, T.	602
Ozol, A. M.	611
Pace, E.	626
Pai, Jung-sen	616
P'an, Chia-lai	628
P'an, Hsi-che	625
Panasyuk, N. S.	B-19
Panov, Yu. N.	622
Pantin, J. -L.	616
Papillon-Leage	614
Papoular, R.	B-19
Parc, G.	651
Parkhomenko, E. I.	634
Parmentier, P.	665
Parsonova, G. L.	646
Pascal, M. P.	649
Pashkevich, M. Yu.	647
Patsko, A. I.	609
Paul, R.	614
Pauli, W.	B-19
Paushkin, Ya. M.	626
Pavaloiu, I.	630
Pavlov, B. A.	630
Pearlman, D.	653
Penkov, P. M.	646
Perekatov, V. I.	661
Perette, J.	668
Perkins, L. R.	655
Perkins, N. E.	604
Persic, N.	612
Persyantseva, V. P.	669
Pertsov, M. A.	666
Pervukhina, A. E.	634
Pestel, M.	614
Peterburgskii, A. V.	604
Peters, K.	629
Petrovskii, I. G.	B-19
Petrovskii, Yu. V.	627
Petukhov, G. G.	626
Peuch, M. A.	668
Pfauth	645
Pfleiderer, C.	646
Piacenza, M.	639
Pichler, H.	651
Pikaev, A. K.	629
Pikel'ner, S. B.	B-18
Pilipenko, A. T.	619
Pobedonostsev, V.	647
Pochinok, V. Ya.	654
Podbreznik, F.	667
Podgoretskii, M. I.	668
Podgorodetskii, E. K.	654
Podluzhnii, V.	647
Podosenova, N. G.	675
Pogodina-Alekseev, G. I.	664
Pohl, R. W.	675
Poirier, G.	612
Pokhil, P. F.	643
Pokrovskii, G.	670
	671
Pokrovskii, G. I.	678
Pokrovskii, I. F.	680
Poles, G.	659
Polovchenko, I. G.	664
Polyakov, A. Yu.	665
Pölzguter, F.	657
Ponomarev, B. D.	676
Ponomareva, R. B.	610
Pooka, P.	647
Popov, A. A.	667
Popov, K. A.	676
Popov, N. N.	680
Popov, Yu. P.	670
Popova, L. M.	613
Popova, O. V.	654
Pospelov, V. A.	675
Postnikov, A.	602
Postricheva, O. V.	613
Povarnin, P. I.	676
Prache, P. M.	643
Pratesi, P.	626
Pravdyuk, N. F.	B-18
	B-19
Priaekin, V. L.	661
Prokhorov, K. V.	634
Prokhotskii, Yu. M.	654
Prokopchuk, A. Ya.	617
Proksch, E.	629
Promin, M. E.	604
Prozorovich, E. A.	634
Pruss, P. Kh.	654
Psaume, J.	614
Pshenichnyi, B. N.	660
Pshezhetskii, S. Ya.	B-19
Pugachev, V.	644
Puzakov, N. W.	632
Pyriki, C.	619
Rabe, P.	616
Racciu, G.	623
Rachinskii, F. Yu.	B-19
Raff, P.	626
Raizer, Yu. P.	B-20
Rakhimbaeva, N.	642
Rankin, G. A.	649
Rapoport, I. B.	620
Rathke, H.	649
Razumov, N. A.	646
Razuvaev, G. A.	626
Rebuffat, A.	649
Reformatskii, I. A.	668
Rehbinder, P. A.	629
Rellermeyer, H.	664
Reppe, W.	626
Reynier, C. -E.	616
Reznichenko, V. A.	675
Rieck, G.	620
Rienlicker, G.	629
Rigamonti, R.	656
Rist, A.	666
Rivosh, L. A.	635
Rodot, H.	675
Rodot, M.	675
Rodt, V.	648
Rogoz, A.	614
Roiter, V. A.	628
Romanova, M. A.	636
Rosenbach, O.	637
Roslovskii, A. I.	629
Rossi, A.	620
Rottner, E.	657
Rovnyi, G. A.	602
Rozenfel'd, I. L.	669
Rubin, B. A.	604
Rublevskii, I. N.	663
Rubtsov, N. A.	651
Rudeloff, M.	641
Rudolph, H.	660
Rumpelt, H.	640
Rusyantsev, Yu.	638
Rusznyak, I.	681
Ruzhentsov, S. V.	634
Rvacheva, E. I.	659
Ryabchikov, D. I.	619
Rybakova, L. I.	674
Rybin, R. A.	676
Rybnikova, A. I.	654
Ryumin, S.	681
Saakov, V. A.	610
Sacrez, R.	612
Sakaba, K.	657
Salazhov, E. L.	603
Salmanov, M. A.	617
Salomon, T.	651
Saltykova, V. S.	634
Samarin, A. M.	665
Samarin, G.	612
Samarin, V. G.	605
Samarskii, A. A.	660
Samokhvalova, N. S.	617
Samsonov, G. V.	610
	619
Sanger, E.	669
Sano, Shun-ichi	634
Sanya, A.	617
Sapozhnikov, D. I.	610
Sarkisyan, S.	681
Sartori, P.	629
Satava, V.	650
Sattler	640
Sauval, A.	605
Savidan, L.	B-19
Savin, E. N.	611
Sazhin, B. I.	675
Schaaber, O.	667
Schäfer, M.	629
	662
Schardin, H.	674
Schleicher, W.	666
Schmeisser, M.	629
Schmid, C.	640
Schmidt, M.	621
Schmidt, O.	650
Schmidt-Matthiesen, H.	B-19
Schmitz-Du Mont, O.	629
Schnegg, R.	652
Scholler	640
Scholz, A.	608
Schönborn, H.	651
Schoot, E.	650
Schubert, K.	628
Schuler, M.	662
Schütze, H. J.	642
Schwaab, P.	667
Schwabe, G.	664
Schwäbel, R.	653
Schwartz, W.	635
Schwietz, H. E.	650
Scimar, R.	666
Sekine, B.	602
Sellet	655
Semenova, N. K.	623
Senden, K. G. van	612
Serafimov, K.	605
Sergeev, V. A.	624
Sergienko, I. V.	663
Setkina, O. N.	673
Sevchenko, A. N.	609
Shabanova, I.	617
Shakhparanov, M. I.	629
Shandalova, L. P.	610
Sharov, A. N.	603
Shchigolev, B. M.	B-19
Shchegolev, V. A.	688
Shchelokov, K. F.	664
Shcherbakov, D. I.	635
Shebanov, V. A.	668
Sherman, F. S.	654
Sherstyuk, M. I.	667
Sherwood, P. W.	640
Shestoperov, S. V.	629
Shevenko, S. M.	681
Shevlyakov, I. M.	646
Shibano, H.	657
Shidlovskii, A. A.	641
Shih, Ya-feng	635
Shih, Yen-chen	616
Shinohara, K.	625
Shioyama, I.	602
Shkarenkova, L.	610
Shklovskii, I. S.	605
Shlain, L. B.	633
Shmidt, V. M.	611
Shpol'skii, E. V.	B-19
Shreider, E. Ya.	B-17
Shtefko, I. V.	647
Shtoda, A. V.	646
Shubnikov, A. V.	675
Shugurov, V. K.	669
Shuikin, N. I.	625
Shul'ga, A. M.	609
Shults, V. L.	631
Shutov, V. D.	635
Shvetsov, P. F.	632
Sidorov, A. N.	673
Sieberg, G.	663
Sieglerschmidt, H.	641
Silyaeva, M. F.	617
Simorda, J.	650
Sineshchekov, V. A.	609
Sinn, R.	627
	628
Sinochkina, L. N.	622
Sintsov, V. N.	654
Skorodumov, A. S.	602
Skripchenko, N. S.	636
Skuridin, G. A.	644
Smirnov, M. N.	610
Smirnov, O. K.	654
Smirnov, V. N.	610
Smit	609
Smolensky, S.	620
Smorodinov, M. A.	648
Snarskii, A. N.	641
Sobolev, V. S.	636
Soeda, Y.	625
Sofroni, L.	666
Sofue, H.	657
Sokolov, P. S.	647
Solov'ev, O. N.	635
Solov'ev, S. M.	654
Sommerkorn, G.	667
Sorokin, Yu. A.	626
Sorokin, Yu. I.	637
Sosnovskii, A. T.	617
Soussan-Rouvelou, J. -L.	616
Spektorova, S. I.	664
Spirin, A. S.	B-20
Spitsyn, V. I.	669
Staeger, R.	657
Staehelin, M.	610
Stamm, H.	641
Stanyukovich, K.	644
Stäubli, W.	610
Staverman, A. J.	626
Stephen, H.	619
Stephen, T.	619
Stepin, L. D.	B-20
Sterkin, I.	602
Stishov, S. M.	635
Stoeckhert, K.	657
Stranski, I. N.	675
Strassen, H. zur	650
Strathmeyer, W.	620
Strelchuk, N.	641
Striegler, A.	657
Stryzky, A. von	616
Suchet, J. P.	675
Südhoff, H., ed.	B-20
Suhramann, R.	629
	630
Sukhoruchkin, Yu. V.	622
Sun, Ch'uan-wei	603
Sun, Min-yung	678
Suranyi, J.	B-17
Suter, A.	650
Suvorov, A. I.	635
Svehla	608
Svenson, O.	663
Sverchkov, A. G.	641
Sveshnikov, A. G.	672
Sydow, A.	660
Syrkin, Ya. K.	674
Sysoev, N. N.	637
Szabó, Z. G.	630
Tabata, Y.	657
Takagi, K.	625
Takagi, S.	653
Takagoamo, T.	658
Takahama, M.	657
Takahashi, S.	625
Takahashi, T.	663
Takai, H.	B-20
Takashi, Y.	657
	658
Takayama, Y.	619
Takizaki, K.	620
Tanaka, S.	658
T'ang, Ming-tao	625
Tapie, M.	611
Tarakura, M.	625
Tardy, H. -L.	674
Tarlinskii, I. V.	647
Taszlicki, N.	651
Tavasci, B.	650
Tchoubar, B.	B-20
Teltz, H. -P.	615
Teng, Chia-ch	619
Teplyi, D. L.	616
Terakawa, A.	655
Teucher, S.	614
Thedering, F.	614
Thiele, F. A. J.	612
Thuss, W.	646
Tikhomirova, N. N.	673
Tikhonov, A. N.	660
Tikhonov, K. K.	648
Tkachov, F. T.	608
Tokumoto, A.	620
Tokunaga, H.	653
Tokunaga, Y.	664
Tolstopyatova, A. A.	627
Torigai, S.	658
Torje, D.	611
Torkar, K.	664
Tovchirichko, I.P.	602
Toyama, H.	625
Toyne	624
Tratsevitskaya, B. Ya.	666
Traut, H.	645
Trawinski, H.	641
Trebin, F. A.	651
Tribalat, S.	669
Trojer, F.	650
Trömel, G.	664
Trommsdorff, E.	626
Trostyanskaya, E.B.	625
Tscharny, A. M.	614
Tsederberg, N. V.	B-20
Tso, Tsung-c'hi	619
Tso, Ya-ning	619
Tsuboi, T.	625
Tsukamoto, T.	610
Tsunoda, Y.	657
	658
Tsurugi, J.	663
Tsvetkov, Yu. D.	626
Tsyunaitis, G. K.	669
Turov, E. A.	B-20
Tvalchrelidze, G.A.	636
Tyukina, A. P.	611
Tyutyunnikov, B. N.	648
Udachin, A.	678
Uemura, E.	657
Urusov, I. D.	643
Utenyshev, Yu. P.	604
Uustalu, A.	647
Vacca, G.	615
Vachez, F.	626
Valitov, R. A.	642
Vanyashin, D. I.	638
Vatrushin, L. S.	667
Vavilov, V. S.	672
Vedeneev, V. I.	B-20
Veksler, V. I.	642
Veprik, Ya. M.	654
Verga, G.	612
Vernadskii, V. I.	631
Vernov, S. N.	644
Vershkovskaya, O.V.	634
Veschastnov, A. V.	652
Vilenskii, Yu. B.	654
Vinarov, S. M.	667
Vincent-Geisse, J.	674
Vinogradov, A. S.	638
Vinogradov, V. P.	668
Vintovkin, S. I.	672
Vischer, E.	609
Vizbaraite, Ya. I.	672
Vlasova, K. N.	656
Vlodarskaya, V. R.	635
Voinov, S. I.	603
Voisin, R.	613
Voitkevich, A. A.	B-20
Voitsekhivskii, R. V.	652
Völkening, W.	647
Volkersen, O.	B-20
Volkonskii, Yu. N.	637
Volkov, L. G.	663
Volursus,	681
Völz, H.	635
Vorob'ev, P. K.	631
Voskresenskaya, A.K.	618
Vyalov, G. N.	669
Vysetskii, A.	682
Wache, X.	666
Wagner, C. A.	658
Wagner, H.	624
Wagner, H. B.	658
Wagner, J. A.	624
Wallace, R. C.	620
Wang, Ying-lai	610
Wartmann, R.	665
Watanabe, K.	640
Watase, T.	625
Wedler, G.	630
Wegener, W.	653
Weinbrenner, E.	655

Author	Page
Weinbrenner, E.	655
Weitzer, H. H.	664
Weller, S.	628
Wendt, H.	662
Werber	622
Wesslau, H.	626
Weyer, I.	650
Wiberg, E.	621
Wickbold, R.	620
Wieland, T.	627
Wiss, O.	610
Wittig, G.	626
Wöhler, F.	617
Wojnowski, W.	621
Wolf, S.	653
Wolthan, H.	626
Wörmann, E.	630
Woyczechowski	638
Wright, F. E.	649
Wu, Chung-wei	678
Yagi, I.	620
Yagovdik, M. Z.	617
Yakovchuk, N.	639
Yakovlev, A.	641
Yakovlev, G. F.	635
Yakshin, V. M.	633
Yakubaitis, E. A.	678
Yakubovich, A. A.	629
Yakubovich, A. Ya.	627
Yakubovich, S. V.	653
Yamada, T.	653
Yamamoto, Y.	640
Yamanaka, K.	602
Yamao, M.	658
Yang, Hsu-ch'iang	678
Yano, T.	632
Yarosh, A. Ya.	635
Yasentsev, V. F.	646
Yasinskii, S. Ya.	662
Yasuda, Y.	673
Yasyrev, A. P.	634
Yatskevichyus, A. S.	616
Yazvikova, M. P.	656
Yin, Hung-chang	610
Yoshida, S.	622
Yoshimi, N.	658
Yoshimura, A.	653
Yoshioka, H.	627
Yumarik, Yu.	647
Yumoto, O.	658
Yusupov, Ya. Yu.	641
Yutkin, L. A.	646
Yutsis, A. P.	669
Zabrodskii, S. S.	672
Zagorodnov, M. V.	B-20
Zaitseva, K. K.	603
Zaitseva, S. D.	617
Zamoshnikova, N. N.	654
Zamotorin, M. I.	669
Zamyshlyaeva, A. M.	665
Zaretskii, I. I.	623
Zavodova, T. I.	B-20
Zel'dovich, Ya. B.	615
Zenkevich, N. L.	B-20
Zeuthen, F.	636
Zhdanov, G. S.	681
Zherebin, B. M.	675
Zhigarev, L.	663
Zhukov, V. V.	602
Zhvironaite, S. A.	683
Ziegler, K.	672
Zimmermann, E.	627
Znamenskaya, N. S.	638
Zschokke, B.	631
Zubkov, L.	650
Zyuskin, N. M.	680
	654

JOURNAL INDEX

Journal	Page
10 Let Akademii Nauk Azerbaydzhanskoi SSR, Nauchnaya Sessiya 23-27 Aprelya 1955, Baku, 1957	602
Academia Republicii Populare Romine, Centrul de Cercetari Metalurgice. Studii si Cercetari de Metalurgie, 1963, v. 8, no. 2, p. 191-199	666
Academia Republici Populare Romine. Institutul de Mecanica Aplicata Studii si Cercetari de Mecanica Aplicata, 1963, v. 14, no. 4, p. 805-816	630
Academie des Sciences, Paris. Comptes Rendus (France) 1927, v. 185, p. 321	608
1950, v. 231, no. 7, p. 441-443	649
1957, v. 244, no. 5, p. 577-580	674
1957, v. 244, no. 16, p. 2152-2155	674
1958, v. 246, no. 16, p. 2374-2377	622
Accademia delle Scienze di Torino, Classe di Scienze Fisiche, Matematiche e Naturali Atti (Italy) 1934, v. 69, p. 162-165	623
Accademia Nazionale dei Lincei. Classe di Scienze Fisiche, Matematiche e Naturali Rendiconti (Italy)	
1911, ser. 5, v. 20, p. 433-440	620
1929, ser. 6, v. 10, p. 193-196	626
1931, ser. 6, v. 13, p. 779-784	626
1931, ser. 6, v. 13, p. 809-813	623
1933, ser. 6, v. 18, p. 156-161	620
1934, ser. 6, v. 19, p. 415-420	620
1936, ser. 6, v. 24, p. 381-388	656
1952, ser. 8, v. 12, no. 4, p. 444-448	610
Acta Chimica (Hungary) 1964, v. 40, no. 1, p. 1-7, 9-29, 31-73, 75-77, 79-97	618
Acta Endocrinologica (Denmark) 1959, v. 32, no. 2, p. 243-254	616
Acta Vitaminologica (Italy) 1963, v. 17, no. 6, p. 239-254	612
Actualitea Odonto-Stomatologiques (France) 1954, no. 25, p. 7-26	614
Advanced Energy Conversion (England) 1963, v. 3, p. 569-590	675
Akademiya Nauk Estonskoi SSR, Tallinn Izvestiya Seriya Biologicheskaya, 1964, v. 13, no. 1, p. 3-9	616
Akademiya Nauk Kazakhskoi SSR, Alma-Ata Altaiskii Gorno-metallurgicheskii Nauchno-Issledovatel'skii Institut. Trudy, 1961, v. 11, p. 48-55	676
Akademiya Nauk Latviiskoi SSR, Riga. Izvestiya, 1963, no. 12-197, p. 24-26	678
Akademiya Nauk Litovskoi SSR, Vilna Institut Eksperimental'noi Meditsiny. Trudy, 1958, v. 4/5, p. 183-191	616
Akademiya Nauk Litovskoi SSR, Vilna. Trudy. Seriya B, 1961, no. 3(26) p. 53-66	672
Akademiya Nauk SSSR. Doklady, 1950, v. 70, no. 6, p. 1045-1048	629
1951, v. 80, no. 3, p. 325-327	660
1952, v. 82, no. 4, p. 513-516	659
1953, v. 88, no. 1, p. 73-76	625
1953, v. 88, no. 3, p. 475-478	625
1953, v. 89, no. 6, p. 1111-1114	611
1954, v. 95, no. 3, p. 451-454	660
1954, v. 95, no. 6, p. 1235-1238	673
1954, v. 96, no. 4, p. 841-844	611
1954, v. 97, no. 1	659
1954, v. 97, no. 5, p. 843-846	625
1956, v. 106, no. 3, p. 422-424	676
1956, v. 108, no. 2, p. 183-186	659
1957-61, v. 112-141	606
1957-61, v. 112-141	619
1957, v. 113, no. 6, p. 1293-1294	626
Akademiya Nauk SSSR. Doklady, (con.) 1957, v. 114, no. 2, p. 311-313	622
1957, v. 115, no. 2, p. 308-311	624
1957, v. 115, no. 3, p. 516-517	624
1957, v. 116, no. 1, p. 101-104	
1957, v. 116, no. 2, p. 244-247	620
1958-61, v. 118-141	608
1963, v. 148, no. 4, p. 825-828	627
1963, v. 150, no. 1, p. 140-142	635
1963, v. 150, no. 4, p. 823-825	626
1963, v. 151, no. 5, p. 1042-1045	662
1963, v. 151, no. 6, p. 1322-1325	622
1963, v. 153, no. 3, p. 631-633	655
1964, v. 154, no. 1, p. 9-63	C-326
1964, v. 154, no. 2, p. 247-278	C-326
1964, v. 154, no. 2, p. 460-462	609
1964, v. 154, no. 3, p. 495-544	C-326
1964, v. 154, no. 3, p. 714-717	609
1964, v. 154, no. 4, p. 751-802	C-326
1964, v. 154, no. 4, p. 946-949	609
1964, v. 154, no. 4, p. 950-952	609
1964, v. 154, no. 4, p. 974-977	610
1964, v. 154, no. 5, p. 1007-1049	C-326
1964, v. 154, no. 6, p. 1247-1293	C-326
1964, v. 154, no. 6, p. 1448-1451	610
1964, v. 155, no. 5, p. 1039-1041	605
1964, v. 155, no. 5, p. 1062-1065	631
1964, v. 155, no. 5, p. 1212-1215	610
1964, v. 155, no. 6, p. 1314-1316	634
1964, v. 156, no. 1, p. 125-127	609
1964, v. 156, no. 2, p. 471-473	609
Akademiya Nauk SSSR. Institut Biologii, Sverdlovsk Trudy, 1962, no. 28, 130p	610
Akademiya Nauk SSSR. Institut Fiziologii. Trudy, 1959, v. 8, p. 1-632	612
Akademiya Nauk SSSR. Institut Geologii Rudnykh Mestorozhdenii, Petrografii, Mineralogii i Geokhimii. Trudy, 1961, no. 41, p. 119-133	634
1961, no. 41, p. 134-140	633
1961, no. 41, p. 140-157	634
Akademiya Nauk SSSR. Izvestiya Mekhanika i Mashinostroenie, 1963, no. 4, p. 7-9	661
Akademiya Nauk SSSR. Izvestiya Seriya Biologicheskaya, 1963, v. 28, no. 4, p. 514-525	617
1964, v. 29, no. 3, p. 482-489	607
1964, v. 29, no. 3, p. 490-492	607
1964, v. 29, no. 3, p. 492-494	612
Akademiya Nauk SSSR. Izvestiya. Seriya Fizicheskaya, 1963, v. 27, no. 5, p. 590-703ff; no. 6, p. 710-841ff; no. 7, p. 851-986ff; no. 8, p. 994-1113ff; 1964, v. 28, no. 1, p. 134ff; 138ff, 141ff	C-288
Akademiya Nauk SSSR. Izvestiya. Seriya Geofizicheskaya, 1953, no. 2, p. 155-165	637
1964, no. 1, p. 3-159; no. 2, p. 161-311; no. 3, p. 313-436	C-285
Akademiya Nauk SSSR. Izvestiya. Seriya Geologicheskaya, 1962, v. 27, no. 3, p. 3-16	636
1962, v. 27, no. 3, p. 17-29	635
1962, v. 27, no. 3, p. 30-44	635
1962, v. 27, no. 3, p. 72-87	633
1962, v. 27, no. 3, p. 100-113	636
1962, v. 27, no. 3, p. 120-121	636
1962, v. 27, no. 7, p. 9-18	634
1962, v. 27, no. 7, p. 59-69	634
1962, v. 27, no. 8, p. 3-13	633
1962, v. 27, no. 8, p. 14-20	633
1962, v. 27, no. 8, p. 60-77	634
1962, v. 27, no. 8, p. 115-120	634
1962, v. 27, no. 9, p. 3-11	635
1962, v. 27, no. 9, p. 27-47	633
1962, v. 27, no. 9, p. 75-89	633
1962, v. 27, no. 9, p. 90-96	635
1962, v. 27, no. 9, p. 109-111	635
Akademiya Nauk SSSR. Izvestiya. Seriya Khimicheskaya, 1956, no. 10, p. 1180-1184	628
Akademiya Nauk SSSR. Izvestiya. Tekhnicheskaya Kibernetika, 1964, no. 1, p. 3-208	660
Akademiya Nauk SSSR. Morskoi Gidrofizicheskii Institut. Trudy, 1962, v. 25, p. 142-186	636
Akademiya Nauk SSSR. Murmanskii Morskoi Biologicheskii Institut Trudy, 1962, v. 4(8) p. 244-249	613
Akademiya Nauk SSSR. Okeanograficheskaya Komissiya. Trudy, 1961, v. 8, p. 109-113	636
Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk Izvestiya, 1949, no. 9, p. 1352-1360	666
Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk Izvestiya: Mekhanika i Mashinostroenie, 1963, no. 6, p. 25-35	661
1963, no. 6, p. 66-68	661
Akademiya Nauk SSSR. Sibirskoe Otdelenie, Izvestiya, 1963, no. 6, Seriya Tekhnicheskikh Nauk, no. 2, p. 121-123	642
Akademiya Nauk SSSR. Vestnik 1957, v. 27, no. 8, p. 21-25	660
1962, v. 32, no. 12, p. 20-21	680
Akademiya Nauk URSR, Kiev. Institut Geologicheskikh Nauk. Trudy: Seriya Geologii Mestorozhdenii Poleznykh Iskopaemykh, 1961, no. 7, 232p.	635
Akademiya Nauk Uzbekskoi SSR, Tashkent Izvestiya Seriya Fiziko-Matematicheskikh Nauk, 1963, v. 7, no. 3, p. 29-36	642
1964, v. 8, no. 1, p. 53-60	642
Akademiya Navuk BSSR, Minsk. Vestsi. Seryya Biyalagichnykh Navuk, 1964, no. 1, p. 87-89	607
1964, no. 1, p. 92-96	617
1964, no. 1, p. 101-106	617
Analiticheskaya Khimiya Toriya, Moscow, 1960, 295p.	619
Analiz Tugoplavkikh Soedinenii, Moscow, 1962, 256p.	619
Analytica Chimica Acta (Netherlands) 1953, v. 8, no. 1, p. 22-28	669
Angewandte Chemie (West Germany) 1948, v. 60, no. 3, p. 78	625
1950, v. 62, no. 16, p. 382-385	658
1952, v. 64, no. 12, p. 323-329	627
1955, v. 67, no. 22, p. 705	624
1957, v. 69, no. 3, p. 82-86	622
1957, v. 69, no. 3, p. 91-93	620
1957, v. 69, no. 3, p. 95	623
1957, v. 69, no. 16, p. 530-533	620
1958, v. 70, no. 4, p. 106-107	627
Annalen der Physik (Germany) 1933, ser. 5, v. 18, p. 305-372	B-19
Annales d'Oto-Laryngologie (France) 1961, v. 78, no. 12, p. 773-778	607
Antibiotiki (USSR) 1964, v. 9, no. 5, p. 403-408, 472-475	615
Archiv für das Eisenhüttenwesen (West Germany) 1951, v. 22, no. 7/8, p. 215-224	664
1964, v. 35, no. 1, p. 15-20	665
1964, v. 35, no. 4, p. 373-380	665
Archiv für Experimentelle Veterinärmedizin (East Germany) 1964, v. 18, no. 3, p. 485-515, 517-533, 535-555, 557-631, 633-657, 659-667, 669-675, 677-691, 693-712	607
Archiv für Gewerbepathologie und Gewerbehygiene (Germany) 1931, v. 2, p. 11-41	614
1931, v. 2, p. 42-46	614
1931, v. 2, p. 56-70	614
Archiv für Mikrobiologie (West Germany) 1950, v. 14, no. 4, p. 602-634	609

Journal	Page
Archiv für Sozialwissenschaft und Sozialpolitik (Germany) 1929, v. 62	681
Archives des Maladies Professionelles de Medecine du Travail et Sécurite Sociale (France) 1946, v. 7, p. 19-23	651
Archives Francaises de Pediatrie, 1958, v. 15, no. 9, p. 1204-1212	612
Arkhiv Patologii (USSR) 1964, v. 26, no. 3, p. 3-15	617
Astronomicheskaya Observatoriya, Stalinabad Byulleten' (USSR) 1952, no. 1, p. 15-26	605
Atlas Spektrov Elektronnogo Paramagnitnogo Rezonansa: Teoreticheski Rasschitannye Mnogokomponentnye Simmetricheskie Spektry, Moscow, 1962, 228p.	673
Atomnaya Energiya (USSR) 1958, v. 4, no. 4, p. 389-391	669
1963, v. 15, no. 2, p. 120-130	670
1963, v. 15, no. 4, p. 318-319	672
1964, v. 16, no. 3, p. 195-206	668
Atomnaya Fizika, Moscow, 1963, 575p.	B-19
Automatizace (Czechoslovakia) 1964, v. 7, no. 4, p. 85-102, 107-109; no. 5, p. 113-133	637
Automobil Industrie (West Germany) 1963, v. 11, no. 19F, p. 129-142	614
Automobiltechnische Zeitschrift (Germany) 1938, v. 41, no. 23, p. 616-620	646
Aviatsionnoe Metallovedenie, Moscow, 1962, p. 271-419	667
Aviatsionnyi Institut, Moscow. Trudy (USSR) 1956, v. 61, p. 20-29	659
Avtomaticheskaya Svarka (USSR) 1958, v. 11, no. 3(60) p. 69-78	663
1958, v. 11, no. 6(63) p. 51-55	663
Avtomatyka (USSR) 1963, v. 8, no. 3, p. 47-58	642
Avtomobil'nye Dorogi (USSR) 1962, v. 25, no. 9, p. 9-11	632
Avtomobil'nyi Transport (USSR) 1964, v. 42, no. 2, p. 15-17, 22-24	647
1964, v. 42, no. 3, p. 38-40	647
1964, v. 42, no. 4, p. 1-4	602
1964, v. 42, no. 4, p. 4-5	601
Azerbaidzhanskii Nauchno-Issledovatel'skii Institut po Dobyche Nefti. Trudy (USSR) 1956, v. 4, p. 244-270	634
der Bauingenieur (Germany) 1939, v. 20, no. 17/18, p. 231-232	641
Beretning om Atomenergikommissionens Virksomhed, n.p., 1963, p. 1-83	B-17
Berlin Technical Univ. Institute for Technical Physics, n.d.	674
Berliner Zeitung (East Germany) 1963, 5 Apr, p. 5	642
Biofizika (USSR) 1964, v. 9, no. 3, p. 293-305	622
Biokhimiya (USSR) 1964, v. 29, no. 3, p. 477-486	609
Biokhimiya i Fiziologiya Immuniteta Rastenii, Moscow, 1960, 350p.	604
Bol'shaya Meditsinskaya Entsiklopediya (USSR) 1963, v. 32, p. 941-954	614
Botanicheskii Zhurnal (USSR) 1959, v. 44, no. 6, p. 854-860	611
1964, v. 49, no. 1, p. 85-93	611
Brennstoff-Chemie (West Germany) 1939, v. 20, no. 13, p. 247-250	651
1955, v. 36, no. 21/22, p. 321-328	624
Bulgarska Akademiya na Naukite Spisanie, 1963, v. 8, no. 4, p. 30-34	630
Bunseki Kagaku (Japan) 1955, v. 4, no. 5, p. 290-293	619
1955, v. 4, no. 6, p. 349-353	619
1964, v. 13, no. 3, p. 282-288	619
Byulleten' Tekhniko-Ekonomicheskoi Informatsii (USSR) 1964, no. 3, p. 62-64	602
Byulleten' Tekhniko-Ekonomicheskoi Informatsii (USSR) (con.) 1964, no. 3, p. 65-67	602
1964, no. 3, p. 67-69	602
Cables et Transmission (France) 1950, v. 4, no. 2, p. 89-125	643
Casopis Lekaru Ceskych (Czechoslovakia) 1963, v. 102, no. 10, p. 277	608
Cement, Wapno, Gips (Poland) 1962, v. 17/27, no. 9, p. 252-255	649
Ceskoslovenska Fysiologie 1964, v. 13, no. 3, p. 195-285	606
Chemicke Listy (Czechoslovakia) 1956, v. 50, no. 7, p. 1120-1125	619
Chemicke Zvesti (Czechoslovakia) 1964, v. 18, no. 5/6, p. 313-464	618
die Chemie der Hydraulischen Bindemittel, Leipzig, p. 144-154, 157-160	649
Chemie-Ingenieur-Technik (West Germany) 1950, v. 22, no. 17, p. 361-373	636
1953, v. 25, no. 5, p. 245-248	639
1953, v. 25, no. 6, p. 285-291	639
1956, v. 28, no. 7, p. 475-480	640
1958, v. 30, no. 2, p. 85-95	641
1958, v. 30, no. 4, p. 226-228	640
1964, v. 36, no. 1, p. 9-14	629
Chemiefasern (West Germany) 1964, v. 14, no. 2, p. 121-126	653
Chemiker Zeitung (Germany) 1925, v. 49, p. 821	648
Chemisch Weekblad (Netherlands) 1950, v. 46, p. 902-906	628
1952, v. 48, no. 16, p. 237-242	622
1952, v. 48, no. 16, p. 259-264	626
1952, v. 48, no. 16, p. 264-273	624
Chemische Berichte (West Germany) 1938, v. 71, no. 7, p. 1492-1497	622
1941, v. 74, no. 4, p. 636-647	616
1951, v. 84, no. 1, p. 4-12	624
1955, v. 88, no. 6, p. 742-763	622
Ch'i Hsiang Hsüeh Pao (Chinese People's Republic) 1963, v. 33, no. 4, p. 411-561	631
Chimie Analytique (France) 1958, v. 40, no. 4, p. 120-126	619
Chimie et Industrie (France) 1948, v. 59, no. 3, p. 240-246	649
1957, v. 77, no. 5, p. 1009-1031	658
1958, v. 79, no. 1, p. 11-14	639
Chishitsu Chosajo Geppo (Japan) 1960, v. 11, no. 6, p. 33-48	634
Christ und Welt (West Germany) 1954, 18 Mar	681
Chto Takoe Bionika, Moscow, 1963, 88p.	677
Chung Hua Nei K'o Tsa Chih 1964, v. 12, no. 3, p. 245	616
1964, v. 12, no. 3, p. 278	613
Chung Kuo Hsin Wen (Chinese People's Republic) 1964, 28 May, p. 9	613
Commissariat à l'Energie Atomique, Paris (France) no. 2187, 1962	668
no. 2374, 1963	668
Conference on Neutron Dosimetry, Harwell, 10-14 Dec 62 Proceedings, v. 1, 1963, p. 337-343	668
Conference on Plasma Physics and Controlled Nuclear Fusion Research, Salzburg, 4-9 Sep 61 Proceedings, paper no. 226	668
Conference on Practical Applications of Short-Life Radioisotopes Produced in Small Research Reactors, Vienna, 5-9 Nov 62. Proceedings	667
Conference on the Application of Large Radiation Sources in Industry and Especially to Chemical Processes, Warsaw, 8-12 Sep 58. Proceedings, v. 1, Vienna, 1960, p. 105-114	650
1960, p. 149-162	671
1960, p. 163-177	671
Conference on the Use of Radioisotopes in the Physical Sciences and Industry, Saint-Denis, 6-17 Sep 60. Proceedings, Vienna, 1962, v. 2, p. 109-127	669
Contribution à l'Etude Aérothermique d'un Jet Plan Evoluant en Présence d'une Paroi	B-19
Denki Tsushin Gakkai Zasshi (Japan) 1962, v. 45, no. 5, p. 637-641	673
1963, v. 46, nos. 4-6	C-296
Deutsche Apotheker Zeitung (West Germany) 1955, v. 95, no. 7, p. 153-157	615
das Deutsche Gesundheitswesen (East Germany) 1964, v. 19, no. 28, p. 1293-1297	617
Deutsche Medizinische Wochenschrift (West Germany) 1963, v. 88, no. 10, p. 485-490	616
1963, v. 88, no. 34, p. 1638-1643	614
Doctoral Dissertation, Berlin Univ., 1837	674
Doctoral thesis, Kiel Univ., Institute of Mineralogy (Germany) 1930	650
Domennyi Protsess po Noveishim Issledovaniyam, Moscow, 1963, p. 84-111, 127-145, 296-303	663
Dresden Technical Univ. (Germany) Archive 44/7, n.d.	
44/14,	662
23 Sep 44	662
Ekonomicheskaya Gazeta (USSR) 1963, no. 12(85) p. 34	602
1963, no. 52(125) p. 32	647
1964, no. 14(139) p. 10	681
1964, no. 20(145) p. 9	647
1964, no. 20(145) p. 38	681
1964, no. 21(146) p. 17-18	639
Ekonomika Radyans'koi Ukrainy (USSR) 1964, no. 3, p. 3-8	681
Eksperimental'no-Teoreticheskie Issledovaniya Zhelezobetonnykh Konstruktsii, Moscow, 1963, p. 45-63	641
Elektrotechnische Zeitschrift Ausgabe A. Zentralblatt für Elektrotechnik (Germany) 1939, v. 60, p. 1113-1115	672
Elementarnaya Fizika Plazmy, Moscow, 1963, 192p.	B-17
Energii Razryva Khimicheskikh Svyazei-Potentsialy Ionizatsii, Srodstvo k Elektronu, Moscow, 1962, 216p.	B-20
Erdol and Kohle-Erdgas-Petrochemie (West Germany) 1949, v. 2, no. 9, p. 389-396	651
1958, v. 11, no. 2, p. 69-72	635
1958, v. 11, no. 2, p. 72-75	640
1958, v. 11, no. 5, p. 312-317	656
1963, v. 16, no. 8, p. 843-846	640
1963, v. 16, no. 11, p. 1116-1119	640
Farmatsevtychnyi Zhurnal (USSR) 1961, v. 16, no. 4, p. 16-20	609
Faserforschung und Textilechnik (East Germany) 1951, v. 2, no. 8, p. 308-321	653
1951, v. 2, no. 10, p. 383-390	652
Fauna SSSR, Novaya Seriya 1952, v. 50, 425p.	618
Felsooktatasi Szemle (Hungary) 1964, v. 13, no. 3, p. 166-181	611
Festkörperprobleme (West Germany) 1964, v. 3	674
Fette, Seifen, Anstrichmittel (West Germany) 1964, v. 66, no. 1, p. 59-61	612
Fire Affairs, Moscow, 1963, p. 9-11	641
Fiskets Gang (Norway) 1964, v. 50, no. 7, p. 119-120	645
Fizicheskie Osnovy Rascheta Poluprovodnikovykh Termoelektricheskikh Ustroistv, Moscow, 1962, 136p.	B-17

Journal	Page
Fizicheskie Svoistva Magnitouporyadochennykh Kristallov, Moscow, 1963, 224p.	B-20
Fizika Tverdogo Tela (USSR) 1964, v. 6, no. 5, p. 1406-1412	672
Fizika Udarnykh Voln i Vysokotemperaturnykh Gidrodinamicheskikh Yavlenii, Moscow, 1963, 632p.	B-20
Fiziologicheskaya Rol' Atsetilkholina i Izyskanie Novykh Lekarstvennykh Veshchestv, Leningrad, 1957, 462p.	616
Fiziologichnyi Zhurnal (USSR) 1964, v. 10, no. 2, p. 163-170	608
1964, v. 10, no. 2, p. 177-182	608
1964, v. 10, no. 2, p. 227-234	607
1964, v. 10, no. 2, p. 274-277	607
Fiziologiya Rastenii (USSR) 1955, v. 2, no. 4, p. 373-377	611
1957-61, v. 4-8	619
Flug-welt (West Germany) 1954, v. 3, 26 Feb.	681
Flyuksor Kak Element Zapominayushchikh Ustroistv, Moscow, 1962, 48p.	661
Forschung auf dem Gebiete des Ingenieurwesens (Germany) 1931, v. 2, no. 11, p. 395-407	637
Funktsional'nye Svoistva Nevro-Myshechnogo Pribora Nasekomykh, Moscow/Leningrad, 1959, 187p.	618
GDR v Sisteme Mezhdunarodnogo Sotsialisticheskogo Razdeleniya Truda, Moscow, 1963, p. 40-67, 191-196, 230-237	680
Génie Chimique (France) 1957, v. 78, no. 2, p. 33-45	639
Geofizicheskii Byulleten' (USSR) 1963, no. 13, p. 18-28	637
1963, no. 13, p. 80-93	605
Geologiya i Geofizika (USSR) 1962, no. 10, p. 93-103	636
Geomagnetizm i Aeronomiya (USSR) 1963, v. 3, no. 5, p. 816-822	643
1963, v. 3, no. 6, p. 1059-1064	605
Geophysical Prospecting (Netherlands) 1957, v. 5, no. 3, p. 328-348	637
1961, v. 9, no. 1, p. 60-73	637
Gezetzblatt der Deutschen Demokratischen Republik (East Germany) 1964, pt. I, nos. 2-6	679
Gidrodinamika i Teploobmen v Pseudoozhizhennom Sloe, Moscow/Leningrad, 1963, 488p.	B-20
Glasseref (West Germany) 1952, v. 39, no. 19, p. 467-472	657
Gipotermiya i Anabioz, Moscow, 1964, p. 3-23, 285-288	614
Glasers Annalen (Germany) 1961, v. 85, no. 3, p. 91-97	647
Glastechnische Berichte (West Germany) 1960, v. 33, no. 5, p. 165-168	651
Gosudarstvennyi Gidrologicheskii Institut, Trudy (USSR) 1963, v. 102, p. 209-226	631
1963, v. 105, p. 45-79	631
1963, v. 108, p. 89-114	631
GWF; das Gas-und Wasserfach (West Germany) 1951, v. 92, no. 17, p. 238-242	639
Handbuch der Physik (West Germany) 1956, v. 17, Dielektrika, p. 166-182	674
1956, v. 17, Dielektrika, p. 201-219, 240, 246-248, 251-252	673
Hautarzt (West Germany) 1957, v. 8, p. 486-488	613
Helvetica Chimica Acta (Switzerland) 1952, v. 35, no. 1, p. 407-411	610
1963, v. 46 (no. 4) p. 1385-1389	609
Holzforschung und Holzverwertung (Austria) 1963, v. 15, no. 5, p. 83-88	B-19
1963, v. 16, no. 4, p. 70-77	658
Hua Hsueh T'ung Pao (Chinese People's Republic) 1964, no. 2, p. 52-53	625
Hua Hsueh T'ung Pao (Chinese People's Republic) (con.) 1964, no. 2, p. 53-55	619
1964, no. 2, p. 55-56	619
1964, no. 3, p. 55-58	623
1964, no. 3, p. 58-59, 62	625
1964, no. 5, p. 53-57	628
Hutnik (Czechoslovakia) 1962, v. 12, no. 7, p. 339-347	666
Idojaras (Hungary) 1963, v. 67, no. 6, p. 372-376	631
Imono (Japan) 1961, v. 33, no. 3, p. 190-201	664
Industrie Chimique Belge, 1955, v. 20, special no, p. 289-292	669
1956, v. 21, no. 10, p. 1053-1063	624
1957, v. 22, no. 1, p. 39-51	624
l'Industrie du Pétrole (France) 1956, v. 24, no. 12, p. 46-47	624
Institut fur Tabakforschung Berichte (East Germany) 1963, v. 10, no. 1, p. 69-106	619
Inzhenerno-Fizicheskii Zhurnal (USSR) 1963, v. 6, no. 2, p. 15-19	676
Italia Grafica, 1960, v. 15, no. 13, p. 4-7	659
Izuchenie Pogranichnogo Sloya Atmosfery s 300-Metrovoi Meteorologicheskoi Bashni, Moscow, 1963, p. 3-40	631
Izvestiya (USSR) 1964, 22 Apr, p. 4	605
1964, 1 May, p. 5	678
1964, 26 May, p. 4	666
1964, 29 May, p. 3	678
1964, 20 Jun, p. 3	647
Izvestiya Vysshikh Uchebnykh Zavedenii Aviatsionnaya Tekhnika (USSR) 1964, v. 7, no. 1, p. 47-53	661
1964, v. 7, no. 1, p. 54-59	661
1964, v. 7, no. 1, p. 67-74	661
Izvestiya Vysshikh Uchebnykh Zavedenii Chernaya Metallurgiya (USSR) 1964, v. 7, no. 4, p. 31-36	664
Izvestiya Vysshikh Uchebnykh Zavedenii Fizika (USSR) 1963, no. 3, p. 18-22	673
Izvestiya Vysshikh Uchebnykh Zavedenii Tsvetnaya Metallurgiya (USSR) 1962, v. 5, no. 1, p. 142-149	667
Joint Inst. for Nuclear Research, Dubna (USSR) 1963, P-1343	669
1963, P-1383	668
1964, P-1513, p. 1-10	668
Journal de Chimie Physique (France) 1963, v. 60, no. 10, p. 1219-1226	628
1963, v. 60, no. 10, p. 1227-1230	627
Journal de Pharmacie et de Chimie (France) 1934, ser. 8, v. 20, p. 549-576	615
1935, ser. 8, v. 21, p. 5-23	615
Justus Liebigs Annalen der Chemie (West Germany) 1951, v. 573, no. 3, p. 195-209	626
1958, v. 613, no. 1/3, p. 153-170	624
Katodnye Protsessy Rtutnoi Dugi i Voprosy Ee Ustoichivosti, Moscow, 1961, 320p.	673
Kauchuk i Rezina (USSR) 1963, v. 22, no. 3, p. 10ff.	658
Kazakhstanskaya Pravda (USSR) 1964, 5 Jun, p. 2	666
Kernenerigie (East Germany) 1964, v. 7, no. 4, p. 197-271, 279-280; no. 5, p. 281-359, 361-363	671
Khimicheskaya Profilaktika Radiatsionnykh Porazhenii, n.p., 1964, p. 1-244	B-19
Khimicheskaya Promyshlennost' (USSR) 1962, no. 9, p. 625-630	640
1963, no. 1, p. 65-66	652
Khimicheskie Volokna (USSR) 1963, no. 6, p. 64-65	652
Khimiya v Sel'skom Khozyaistve (USSR) 1964, no. 5, p. 8-11	604
Kibernetika Filosofskie i Sotsiologicheskie Problemy, Gostolitizdat, 1963, 207p	677
Kinetika i Kataliz (USSR) 1963, v. 4, no. 6, p. 835-843	629
Kinomekhanik (USSR) 1963, no. 11, p. 22-25	678
Kisho Shushi (Japan) 1952, ser. 2, v. 30, no. 11, p. 345-355 (1-11)	632
1953, ser. 2, v. 31, no. 6, p. 219-231 (25-37)	632
Kislorodnaya Nedostatochnost', Kiev, 1963, p. 2-13, 571-610	614
Klinicheskaya Fiziologiya i Metody Funktsional'noi Diagnostiki Pochek, Moscow, 1963, p. 106-151, 279-280	B-20
Klinische Wochenschrift (West Germany) 1963, v. 41, p. 1186-1188	608
K'o Hsueh T'ung Pao (Chinese People's Republic) 1964, no. 1, p. 52-56, 71-73, 76-77	676
1964, no. 3, p. 218-225	635
1964, no. 3, p. 231-236	643
1964, no. 3, p. 273	661
1964, no. 5, p. 420-425	678
1964, no. 5, p. 445-449	603
Kogyo Kagaku Zasshi (Japan) 1954, v. 57, no. 2, p. 118-121	625
1963, v. 66, no. 3, p. 324-326	620
1963, v. 66, no. 11, p. 1601-1604	658
1964, v. 67, no. 2, p. 321-323	628
Kolloid Zeitschrift und Zeitschrift fur Polymere (West Germany) 1957, v. 152, no. 1, p. 8-15	655
Kommunist, Erevan (USSR) 1964, 15 Apr, p. 2	662
1964, 31 May, p. 2	667
Kommunist Vooruzhennykh Sil (USSR) 1962, v. 2, no. 15, p. 17-23	643
Konstruktsiya Aviatsionnykh Gazoturbinnykh Dvigatelei, Moscow, 1961, 411p.	646
Korroziya Reaktornykh Materialov: Sbornik Statei, 1960, p. 64-68	667
Krasnaya Zvezda (USSR) 1954, 4 Mar, p. 3	670
1954, 20 Mar, p. 3	668
1954, 26 Mar, p. 3	670
1954, 7 Apr, p. 3	670
1954, 4 Jun, p. 3	671
1954, 19 Jun, p. 4	644
1954, 3 Jul, p. 2	679
1954, 3 Aug, p. 2	644
1954, 4 Aug, p. 2	644
1954, 6 Aug, p. 2	644
1954, 10 Aug, p. 3	644
1954, 25 Aug, p. 2	671
1954, 28 Aug, p. 2	671
1954, 7 Sep, p. 3	669
1954, 11 Sep, p. 3	670
1954, 15 Sep, p. 3	670
1955, 11 Jan, p. 3	670
1955, 19 Jan, p. 2	669
1955, 15 Feb, p. 3	644
1955, 13 Mar, p. 3	670
1955, 31 May, p. 3	638
Kryl'ya Rodiny (USSR) 1963, v. 14, no. 5, p. 3-5	643
Kuang Ming Jih Pao (Chinese People's Republic) 1964, 10 May	632
1964, 4 Jun, p. 2; 5 Jun, p. 2	678
1964, 13 Jun, p. 1; 25 Jun, p. 1	678
Kunststoffe (West Germany) 1953, v. 43, no. 1, p. 36-37	657
1957, v. 47, no. 4, p. 227-231	657
Kurs Lektsii po Kvantovoi Radiofizike, Kharkov, 1963, 171p.	B-20
Laboratorii dlya Rabot s Radioaktivnymi Veshchestvami Moscow, 1963, p. 71-88, 110-118	668
Lakokrasochnye Materialy i Ikh Primenenie (USSR) 1964, no. 1, p. 56-58	653

Journal	Page
Lakokrasochnye Materialy i Ikh Primenenie (USSR) (con.) 1964, no. 2, p. 21-23	636
1964, no. 2, p. 23-26	636
Lektsii ob Uravneniyakh s Chastnymi Proizvodnymi, 3d ed., Moscow, 1961, 400p.	B-19
Leningrad Univ. Vestnik (USSR) 1962, v. 17, no. 6, Seriya Geologii i Geografii, no. 1, p. 36-46	636
1964, v. 19, no. 5, Seriya Ekonomika, Filosofii i Prava, no. 1, p. 121-124	680
Li Hsüeh Hsüeh Pao (Chinese People's Republic) 1963, v. 6, no. 3, back cover	678
Lijecnicki Vjesnik (Yugoslavia) 1963, v. 85, no. 7, p. 747-758	612
Liteinoe Proizvodstvo (USSR) 1963, no. 8, p. 26-27	664
1964, no. 3, p. 27-31	664
Literaturnaya Gazeta (USSR) 1955, 11 Jan, p. 1	680
Logika, Automaty, Algoritmy, Moscow, 1963	B-17
Magyar Fizikai Folyoirat (Hungary) 1964, v. 12, no. 2, p. 111-212	671
Magyar Kemiai Folyoirat (Hungary) 1964, v. 70, no. 5, p. 191-233	618
1964, v. 70, no. 6, p. 235-280	618
Magyar Kemikusok Lapja (Hungary) 1964, v. 19, no. 6, p. 289-308, 321-333	618
Magyar Tudomany (Hungary) 1964, v. 9(71) no. 5, p. 335-336	605
Magyar Tudomanyos Akademia Akademiai Kozlony (Hungary) 1964, v. 13, no. 6, p. 37-60	681
1964, v. 13, no. 7, p. 62-64	605
Maygar Tudomanyos Akademia Biologiai Tudomanyok Osztalyanak Kozlemenyei (Hungary) 1964, v. 7, no. 1/2, p. 7-111	B-17
Magyar Tudomanyos Akademia Kemiai Tudomanyok Osztalyanak Kozlemenyei (Hungary) 1964, v. 21, no. 3, p. 253-275, 277-311, 313-355; no. 4, p. 357-373, 375-383, 385-399, 401-453, 455-467, 469-476	618
Magyar Tudomanyos Akademia Matematikai es Fizikai Tudomanyok Osztalyanak Kozlemenyei (Hungary) 1964, v. 14, no. 2, p. 113-159	671
Makromolekulare Chemie (Switzerland) 1957, v. 22, no. 1/2, p. 59-80	640
1957, v. 24, no. 1, p. 64-75	624
1958, v. 26, no. 1/2, p. 102-118	626
1964, v. 73, p. 168-176	627
Mashinostroenie (USSR) 1964, no. 2, p. 24-26	646
Maslobolno-Zhirovaya Promyshlennost' (USSR) 1936, v. 12, p. 546-547	623
1963, v. 29, no. 5, p. 35-38	645
Matematicheskaya Obrabotka Nablyudenii, Moscow, 1960, 344p.	B-19
Matematicheskii Sbornik (USSR) 1957, v. 41(83) no. 2, p. 221-230	660
Materialprüfung (West Germany) 1962, v. 4, no. 4, p. 127-128	638
Materialy po Geologii i Poleznym Iskopaemym Tsentral'nykh Raionov Evropeiskoi Chasti SSSR, 1962, v. 5, p. 21-24	632
la Medicina del Lavoro (Italy) 1948, v. 39, p. 152-157	613
Medicina Experimentalis (Switzerland) 1963, v. 8, no. 4/6, p. 228-236	615
Meditsinskaya Gazeta (USSR) 1964, v. 27, 24 Jan, p. 2	612
Meditsinskaya Promyshlennost' SSSR 1964, v. 18, no. 2, p. 46-55	611
1964, v. 18, no. 4, p. 6-15	615
Meditsinskaya Radiologiya (USSR) 1963, v. 8, no. 8, p. 42-48, 54-58	617
Medizinische Klinik (West Germany) 1962, v. 57, no. 32, p. 1370-1376	617
Medizinische Welt (West Germany) 1963, no. 12, p. 662	614
1963, no. 19, p. 1078-1081	615
Mekhanizatsiya i Avtomatizatsiya Proizvodstva (USSR) 1964, no. 5, p. 12-13, 37-40	646
Mekhanizatsiya i Avtomatizatsiya Proizvodstva Radiodetalei, Leningrad, 1960, 265p	642
Mekhanizm Radiatsionno-Khimicheskikh Reaktsii, Moscow, 1962, 360p	B-19
Melliand Textilberichte (West Germany) 1951, v. 32, p. 53-56	652
1963, v. 44, no. 12, p. 1312-1317	653
Messen-Steuern-Regeln (East Germany) 1963, v. 6, no. 12, p. 498-501	660
1963, v. 6, no. 12, p. 501-504	660
Metall (West Germany) 1964, v. 18, no. 1, p. 8-16	667
Metalloberfläche (West Germany) 1963, v. 17, no. 7, p. 197-202	667
Metallurg, Leningrad (USSR) 1938, v. 13, no. 1, p. 96-99	665
Metallurg (USSR) 1963, v. 8, no. 9, p. 1-36; no. 10, p. 3-40; no. 11, p. 4-40; no. 12, p. 1-36 and author index; 1964, v. 9, no. 1, p. 1-39; no. 2, p. 1-39	C-301
Metallurgicheskaya i Gornorudnaya Promyshlennost' (USSR) 1964, no. 2, p. 24-26	663
Metalurgia si Constructia de Masini (Rumania) 1962, v. 14, no. 9	663
Meteorologiya i Gidrologiya (USSR) 1962, no. 12, p. 3-8	637
1963, no. 5, p. 38-41	631
1963, no. 6, p. 10-17	630
1963, no. 6, p. 30-34	630
1963, no. 6, p. 34-35	631
1963, no. 6, p. 41-46	630
1963, no. 6, p. 54-55	630
Mezhvezdnaya Sreda, Moscow, 1963, 532p.	B-18
Mikrobiologichnyi Zhurnal (USSR) 1959, v. 21, no. 5, p. 58-65	612
Mikrobiologiya (USSR) 1959-61, v. 28-30	611
Minerva Medica (Italy) 1956, v. 47, no. 77, suppl., p. 823-827	615
1958, v. 49, no. 97, p. 45-43	612
1963, v. 54, no. 49, p. 1849-1854	615
1964, v. 55, no. 3/4, p. 75-77	615
Mongol Erny Olon Jiliyn ba Uliriyn Tsebdigiyn Tuhay, Ulan Bator, 1962, 77p	632
Moscow Univ. Vestnik, Seriya 4: Geologiya, 1963, v. 18, no. 1, p. 28-42	631
Moskovskaya Sel'skokhozyaistvennaya Akademiya. Izvestiya (USSR) 1962, no. 3(46) p. 78-82	604
Moskovskoe Obshchestvo Ispytatelei Prirody, Byulleten'. Otdel Geologicheskii (USSR) 1962, v. 37(67) no. 1, p. 8-24	633
Narodno Zdravlje (Yugoslavia) 1964, v. 20, no. 2, p. 41-63, 67;	606
Nauchno-Tekhnicheskaya Informatsiya (USSR) 1964, no. 3, p. 52-54	682
Nauka i Tekhnika (Latvian SSR) 1964, no. 4, p. 24-26	647
1964, no. 4, p. 34-35	639
Neftekhimiya (USSR) 1963, v. 3, no. 4, p. 541-547	622
Neftyanoe Khozyaistvo (USSR) 1957, v. 35, no. 1, p. 24-30	651
1957, v. 35, no. 7, p. 31-35	641
1957, v. 35, no. 7, p. 45-46	641
Nekotorye Problemy Makromolekulyarnoi Struktury Ribonukleinovykh Kislot, Moscow, 1963, 79p.	B-20
Nekotorye Zakonomernosti v Izmenenii Osnovnykh Mekhanicheskikh Svoistvi Konstruktsionnykh Materialov pri Neitronnom Obluchenii, Moscow, 1962, 39p.	B-19
Nestatsionarnyi Teploobmen, Moscow, 1961, 156p.	B-18
Neue Verpackung (West Germany) 1961, v. 14, no. 5, p. 436	658
Neuere Untersuchungen zur Theorie der Klebverbindungen, Cologne, 1963	B-20
Nihon Gomu Kyokaishi (Japan) 1962, v. 35, no. 12, p. 898-913	658
Obratnaya Zadacha Teorii Rasseyaniya Kharkov, 1960, 267p.	659
Ogneupory (USSR) 1964, v. 29, no. 5, p. 197-200	664
Opredelenie Tipovogo Sostava Peschanykh Otlozhenii s Vozdukha po Ikh Spektral'noi Yarkosti: Metody Izmereniya i Geologicheskaya Interpretatsiya, Leningrad, 1962, 246p.	636
Opredelenie Vremennogo Polozheniya Impul'sov pri Nalichii Pomekh, Moscow, 1962, 200p.	B-19
Organizatsiya i Metodika NTI (USSR) 1964, no. 2, p. 3-5	680
Organizatsiya Veterinarnogo Dela, Moscow, 1962, 408p	609
Orvosi Hetilap (Hungary) 1964, v. 105, no. 21, p. 1005	611
1964, v. 105, no. 21, p. 1008	615
Osnovnye Lekarstvennye Sredstva Kitaiskoi Meditsiny, Moscow, 1960, 411p.	616
Osnovy Analiticheskoi Mekhaniki Obolochek, Kiev, 1963, 354p.	B-18
Osnovy Geokriologii (Merzlotovedeniya) Moscow, 1959, pt. 1, chap. 4, p. 77-107	632
1959, pt. 1, chap. 7, p. 193-219	632
Osnovy Pirotekhniki, Moscow, 1954, 284p.	641

Journal	Page
Paper och Tr11, sic	
1963, v. 45, no. 10, p. 529-531, 533-536, 540-542	B-17
Parazity Sel'skokhozyaistvennykh Zhivotnykh Kazakhstana, v. 1, Alma-Ata,	
1962, p. 229-235	613
1962, p. 236-246	613
Patent (Belgium)	
624 020	621
628 650	648
Patent (France)	
876 558	620
1 226 260	621
1 229 702	621
1 284 537	662
1 328 936	655
1 329 982	658
1 332 000	653
1 345 138	621
1 347 124	650
Patent (East Germany)	
26 361	675
27 013	657
Patent (Germany)	
646 109	620
704 862	640
717 078	639
721 991	621
742 395	655
749 016	626
803 956	655
804 724	655
846 651	644
897 014	656
901 471	655
938 724 add.	652
939 266	641
952 086	626
1 003 726	609
1 005 947	622
1 007 725	652
1 013 501	645
1 013 951	644
1 013 953	645
1 018 409	649
1 034 858 add.	655
1 057 434	603
1 067 207	655
1 097 994	623
1 110 862	639
1 132 786	645
1 133 721	624
1 134 982	626
1 149 987	654
1 159 936	615
Patent (Italy)	
431 407	639
431 484	604
514 965	642
Patent (Japan)	
176 246	623
Patent (Japan)	
pub. 22-2078	625
pub. 26-5979	620
pub. 37-14420	656
pub. 38-2738	655
pub. 38-4694	657
pub. 38-5269	639
pub. 38-5290	656
pub. 38-5820	655
pub. 38-6199	625
pub. 38-7038	658
pub. 38-7039	653
pub. 38-7042	653
pub. 38-7043	653
pub. 38-7044	653
pub. 38-7045	653
pub. 38-7887	656
pub. 38-8996	602
pub. 38-9148	657
pub. 38-9149	657
pub. 38-9440	657
pub. 38-9441	658
pub. 38-11276	658
pub. 38-11442	625
pub. 38-11867	657
pub. 38-12805	663
pub. 38-13354	640
pub. 38-13609	602
pub. 38-13791	656
pub. 38-13853	690
pub. 38-14833	656
Patent (Japan) (con.)	
pub. 38-16335	656
pub. 38-16457	622
pub. 38-16499	602
pub. 38-16854	640
pub. 38-16873	627
pub. 38-16880	624
pub. 38-17656	625
pub. 38-17658	656
pub. 38-18385	657
pub. 38-18542	657
pub. 38-20724	658
pub. 38-20735	656
pub. 38-26086	625
pub. 39-83	658
Patent (Netherlands)	
63-604	648
Patent (Norway)	
94-554	608
95-498	608
95-499	608
95-500	608
Patent (Poland)	
47-240	621
47-979	621
48-057	655
Patent (Sweden)	
89-261	609
Patent (Switzerland)	
134 370	655
157 953	651
169 179	621
185 276 add.	645
190 640	645
194 451	621
194 451 add.	621
194 451 add.	621
201 169	621
201 834	621
206 995	638
227 120	621
236 383	621
246 989	652
246 989 add.	652
252 302	652
256 479	650
258 304	657
282 704	652
282 704 add.	652
285 458	652
285 458 add.	652
289 581	652
289 582	652
Patent (U. S.)	
95 019/61	655
109 977/61	653
147 728/61	621
Patent (USSR)	
100 527	637
107 658	637
148 724	646
149 560	653
154 567	642
155 102	638
155 181	642
156 193	642
156 550	622
157 887	638
158 427	605
158 738	662
Patent application (Germany)	
I 2175	652
I 78 103	620
P 2644	651
P 5700	652
W 10 818	655
Patent application (Netherlands)	
275 045	648
Patologicheskaya Fiziologiya i Eksperimental'naya Terapiya (USSR)	
1963, v. 7, no. 2, p. 78-80	611
Pero Pritay, Moscow,	
1962, 288p.	B-20
Physica Status Solidi (Germany)	
1963, v. 3, no. 6, p. 1059-1071	675
1963, v. 3, no. 7, p. 1247-1251	674
1963, v. 3, no. 9, p. 1619-1628	675
Physics and Chemistry of Solids (U. S.)	
1962, v. 23, p. 975-983	672
Physikalische Zeitschrift (Germany)	
1923, v. 24, no. 16, p. 344-350	662
Planovoe Khozyaistvo (USSR)	
1964, v. 41, no. 5, p. 24-32	639
Planovoe Khozyaistvo (USSR) (con.)	
1964, v. 41, no. 6, p. 11-21	640
1964, v. 41, no. 6, p. 29-38	681
Plasticheskie Massy (USSR)	
1963, no. 3, p. 19-23	656
Polska Akademia Nauk. Bulletin: Serie des Sciences Technique,	
1960, v. 8, no. 11/12, p. 655-660	673
Pravda, Leningrad (USSR)	
1964, 30 May, p. 2	639
Pravda, Moscow (USSR)	
1964, 15 Mar, p. 3	644
1964, 1 May, p. 3	678
1964, 8 May, p. 2	678
1964, 29 Jun, p. 1.	601
1964, no. 187, 5 Jul, p. 1.	679
Pravda Ukrainy (USSR)	
1964, 6 May, p. 3; 7 May, p. 3-4	605
Pravda Vostoka (USSR)	
1964, 20 May, p. 3	680
la Presse Médicale (France)	
1960, v. 68, no. 54, p. 2091-2092	611
1961, v. 69, no. 26, p. 1189	613
1963, v. 71, no. 14, p. 736	613
1963, v. 71, no. 27, p. 1403	614
1963, v. 71, no. 43, p. 2025-2027	616
Prikladnaya Dosimetriya, Moscow,	
1962, 247p	B-17
Prikladnaya Matematika i Mekhanika (USSR)	
1948, v. 12, no. 1, p. 47-52	659
1954, v. 18, no. 3, p. 257-264	661
Primenenie Novykh Vido Udobrenii Neftyanogo Proiskhozhdeniya, Moscow,	
1961, p. 3-64	603
Priroda (USSR)	
1957, v. 46, no. 4, p. 10, p. 105-106	605
1962, v. 51, no. 9, p. 105-108	635
1964, v. 53, no. 1, p. 121-122	677
Problemy Arktiki (USSR)	
1958, no. 3, p. 109-110	637
Problemy Arktiki i Antarktiki (USSR)	
1964, no. 16, p. 75-82	644
Problemy Difraktsii i Rasprostraneniya Voln II, n. p.,	
1962, 217p	B-19
Problemy Gematologii i Perelivaniya Krovi (USSR)	
1964, v. 9, no. 5, p. 3-7	608
Problemy Peredachi Informatsii (USSR)	
1963, no. 13, p. 1-172	678
Prosjekt "Rock'n Roll": Stabilitetseksperimenter for Kokende Lettvannsreaktorer til Maritime Formal: Problemstilling og Forslag til Losning, Kjeller,	
Aug 59	669
Przeglad Epidemiologiczny (Poland)	
1963, v. 17, no. 1/2	612
Psychiatrie, Neurologie und Medizinische Psychologie (East Germany)	
1963, v. 15, no. 6/7, p. 215-226	613
Radex Rundschau (Austria)	
1952, no. 6, p. 267-269	650
1964, no. 1, p. 20-41	667
Radiotekhnika i Elektronika (USSR)	
1964, v. 9, no. 6, p. 1099-1113	673
Razvedka i Okhrana Nedr (USSR)	
1962, v. 28, no. 5, p. 36-42	635
Referativnyi Zhurnal. Biologiya (USSR)	
1963, no. 19	677
Referativnyi Zhurnal. Elektronika i Ee Primenenie (USSR)	
1964, no. 1	677
Referativnyi Zhurnal. Elektrotekhnika (USSR)	
1963, no. 12	641
Referativnyi Zhurnal. Elektrotekhnika i Energetika (USSR)	
1964, nos. 1-2	677
Referativnyi Zhurnal. Fizika (USSR)	
1963, no. 11	671
1963, no. 12	677
1964, nos. 1-3	671
Referativnyi Zhurnal. Geofizika (USSR)	
1963, no. 10	677
1963, no. 12	677
Referativnyi Zhurnal. Geografiya (USSR)	
1964, no. 3	677
1964, no. 4	677

Journal	Page
Referativnyi Zhurnal, Geologiya (USSR) 1964, no. 4	677
Referativnyi Zhurnal. Kotlostroenie (USSR) 1964, no. 2	677
Referativnyi Zhurnal. Matematika (USSR) 1963, no. 10; no. 12	677
1964, nos. 1-2	659
1964, no. 3	677
Referativnyi Zhurnal. Khimiya (USSR) 1964, no. 1; no. 2	677
Referativnyi Zhurnal. Metallurgiya (USSR) 1964, no. 1; no. 2	677
Referativnyi Zhurnal. Otdel'nyi Vypusk 55: Rastenievodstvo (USSR) 1964, no. 2	677
Referativnyi Zhurnal. Otdel'nyi Vypusk 57: Pochvovedenie (USSR) 1963, no. 23	677
Referativnyi Zhurnal. Radiotekhnika i Elektrosvyaz' (USSR) 1964, no. 2	677
1964, no. 3	641
Referativnyi Zhurnal. Tekhnologiya Mashinostroeniya (USSR) 1964, no. 2	677
Referativnyi Zhurnal. Turbostroenie (USSR) 1964, no. 1	677
Regulyatsiya Formoobrazovaniya v Individual'nom Razvitii Moscow, 1964, p. 106-132, 135-136	607
Reserves et la Regulation de l'Avenir dans la Vie Economique. I. Avenir Determine. II. Avenir Aleatoire, Paris, 1946, 378p.	B-18
Revista de Chimie (Rumania) 1962, v. 13, no. 3, p. 153-157	656
Revue d'Optique Theorique et Instrumentale (France) 1929, v. 8, p. 59-69	674
Revue de l'Institut Français du Pétrole et Annales des Combustibles Liquides, 1956, v. 11, no. 4, p. 501-548	651
1957, v. 12, no. 3, p. 304-329	651
1963, v. 18, no. 5, p. 724-759	626
Revue de Métallurgie (France) 1963, v. 60, no. 1, p. 23-37	666
1963, v. 60, no. 5, p. 421-425	664
Revue de Metallurgie. Mémoires Scientifiques (France) 1964, v. 61, no. 1, p. 33-42	666
Revue Générale du Caoutchouc (France) 1956, v. 33, no. 6, p. 516-517	658
Revue Universelle des Mines (France) 1963, v. 106, ser. 9, v. 19, no. 10, p. 403-418	666
1964, v. 107, ser. 9, v. 20, no. 4, p. 1-8	665
Roczniki Chemii (Poland) 1964, v. 38, no. 4, p. 527-710	618
Rominia Libera (Rumania) 1964, v. 22, no. 6092, 20 May, p. 1, 3	611
Royal Materials Testing Bureau, Berlin-Lichterfelde-West (Germany) Rept-23, 1913	641
Sbornik Vyzkumnych Praci (Czechoslovakia) 1955, p. 207-217	651
Schweizer Archiv für Angewandte Wissenschaft und Technik, 1963, v. 29, no. 12, p. 413-427	665
Schweizerische Bauzeitung, 1950, v. 68, no. 19, p. 253-257; no. 20, p. 265-267	674
Schweizerische Medizinische Wochenschrift 1963, v. 93, no. 25, p. 914-918	616
1963, v. 93, no. 42, p. 1511-1512	608
1964, v. 94, no. 7, p. 262-266	610
Scinteia (Rumania) 1964, 28 May, p. 1, 5	614
Sdalovaci Technika (Czechoslovakia) 1964, v. 12, no. 6, p. 208-228	672
Seifen-Öle-Fette-Wachse (West Germany) 1963, v. 89, no. 19, p. 573-578	646
Sel'skii Mekhanizator (USSR) 1964, no. 1, p. 5-7; no. 3, p. 10-11	602
1964, no. 3, p. 10-11	602
Seminar po Fizike Reaktorov na Bystrykh i Promezhutochnykh Neitronakh Vienna, 3-11 Aug 61. Proceedings, v. 3, p. 315-334	670
Seminar po Metodam Matematicheskogo Modelirovaniya i Teorii Elektricheskikh Tsepei. Trudy, no. 1, Kiev, 1963, 247p	660
Sen-i Gakkaishi (Japan) 1958, v. 14, no. 7, p. 484-487	652
Sheng Wu Hsüeh T'ung Pao 1964, no. 2, p. 1-8	611
Sibirskii Fiziko-Tekhnicheskii Institut. Trudy (USSR) 1962, v. 41, p. 87-91	631
Sibirskii Matematicheskii Zhurnal (USSR) 1963, v. 4, no. 3, p. 622-631	659
Silikat Technik (East Germany) 1953, v. 4, no. 12, p. 531-535	651
1955, v. 6, no. 8, p. 338	650
Sluzbeni List, Belgrade (Yugoslavia) 1964, v. 20, no. 18, p. 349-354	679
Société Chimique de France. Bulletin, 1960, no. 2, p. 217-221	623
1960, no. 3, p. 473-481	623
1963, no. 10, p. 2025-2034	623
Societe de Biologie et des ses Filiales. Comptes Rendus des Seances (France) 1946, v. 140, no. 23/24, p. 955-956	609
Societé de Chimie Biologique. Bulletin (France) 1934, v. 16, p. 1366-1371	608
Société Royale des Sciences de Liége. Bulletin (Belgium) 1963, v. 32, no. 1/2, p. 54-61	605
Sotsialisticheskii Trud (USSR) 1964, v. 9, p. 5, p. 65-70	681
Soveshchanie po Primeneniyu Vakuuma v Metallurgie (no. 3). Trudy, Moscow, 1963, p. 3-9	665
Sovetskaya Belorussiya (USSR) 1964, 14 May, p. 2	647
1964, 23 May, p. 2	681
Sovetskaya Geologiya (USSR) 1963, v. 6, no. 2, p. 17-24; no. 3, p. 113-123	635
Sovetskaya Latviya (Latvian SSR) 1964, 29 May, p. 2	681
Sovremennye Sredstva Avariinogo Pokidaniya Samoleta, Moscow, 1961, p. 5-23, 307-431	638
Spavintel'nyi Analiz Nablyudaemykh Planetarnykh Raspredelenii Soderzhaniya Ozono i Nekotorykh Radioaktivnykh Izotopov v Atmosfere, Moscow, 1963 (Russian rept. G/L 905).	B-18
Spektral'nyi Analiz Gasovykh Smesei, Moscow, 1963, 308p	B-17
Spravochnik po Rastvorimosti: Troinye Mnogokomponentnye Sistemy, v. 2, pt. 1, Moscow, 1963, 943p	619
Stahl und Eisen (West Germany) 1926, v. 46, no. 24	648
1962, v. 82, no. 5, p. 276-282	663
1963, v. 83, no. 17, p. 1035-1051	664
1963, v. 83, no. 22, p. 1348-1356	666
1963, v. 83, no. 23, p. 1467-1477	663
1963, v. 83, no. 23, p. 1490-1497	665
1963, v. 83, no. 26, p. 1691-1695	664
1964, v. 84, no. 6, p. 361-364; no. 8, p. 479-482	664
1964, v. 84, no. 7, p. 389-403	663
Stal' (USSR) 1956, v. 16, no. 6, p. 545-548	667
1964, v. 24, no. 5, p. 385-391	666
Standartizatsiya (USSR) 1964, v. 28, no. 3, p. 3-8, 55	646
1964, v. 28, no. 4, p. 25-30	646
Stanki i Instrument (USSR) 1964, v. 35, no. 3, p. 1-2, 8-17	646
Stantsii v Kosmose: Sbornik Statei, Moscow, 1960, p. 42-46, 49-54, 66-68 214-229, 234-238, 259-264, 272-275, 284-288, 291-299, 376-380	643
Statisticheskoe Issledovanie Yaponskogo Matematicheskogo Teksta, Moscow, 1963, 54p	681
Stroenie i Svoistva Splavov Urana, Toriya i Tsirkoniya, Moscow, 1963, p. 16-21, 47-76, 294-298	663
1963, p. 303-308	674
Statistiliyatsionnye Metody Registratsii Chastits Bol'shikh Energii, Moscow, 1963, 171p	B-17
Suda iz Plastmass 2d ed., Leningrad, 1963, 160p	644
Sudovye Rybopoiskovye i Elektranavigatsionnye Pribory, Leningrad, 1963, chap. 6, p. 75-90	672
Svensk Kemisk Tidskrift, 1926, v. 38, p. 111-121	649
Svobodnoe Dvizhenie v Pole Zemnogo Steroida, Moscow, 1963, 120p	643
Symposium on the Chemistry of Aqueous Processing of Irradiated Fuels, Brussels, 23-26 Apr 63, Session V (morning) Rept. no. 17b	670
Tecteniya Gaza v Kanalakh pri Nalichii Teploobmena, Kiev. 1963, 123p	B-19
Technische Mitteilungen Krupp (West Germany) 1957, v. 15, no. 1, p. 13-22	667
Technische Mitteilungen Krupp. Forschungsberichte (West Germany) 1963, v. 21, May, p. 1-4	664
1963, v. 21, no. 4, p. 123-127	663
1963, v. 21, no. 4, p. 139-146	666
Tehnika (Yugoslavia) 1964, v. 19, no. 6, p. 1011-1014	668
Teion Kagaku. Butsuri Hen (Japan) 1954, v. 12, p. 94-111	632
Tekhnika Kino i Televideniya (USSR) 1963, v. 7, no. 10, p. 35-38	654
Tekhnika Oblucheniya Materialov v Reaktore, Moscow, 1962, 57p	B-19
Tekhnologicheskii Institut imeni Leningradskogo Lensoveta. Trudy (USSR) 1946, v. 12, p. 152-164	627
Teknisk Tidskrift (Sweden) 1943, v. 73, no. 7, p. E10-E125	642
Telecomunicatii (Rumania) 1964, v. 8, no. 2, p. 49-85	641
Telefunken-Röhre (Germany) 1961, no. 39, p. 121-159	642
Teoreticheskie Osnovy Khimiko-Termicheskoi Obrabotki Stali, Sverdlovsk, 1962, 118p	667
Teoriya Avtomaticheskogo Upravleniya Poletom, n.p., 1964, 698p	B-17
Teoriya i Primenie Metoda Osredneniya Funktsional'nykh Popravok, Kiev, 1963, 131p	B-18
Teoriya Protsessov Mineraloobrazovaniya: Trets'ye Chteniye im. V. I. Vernadskogo, Moscow, 1962, 24p	636
Teoriya Veroyatnostei i Ee Primeneniya (USSR) 1963, v. 8, nos. 2 and 4	C-341
Teploenergetika (USSR) 1962, v. 9, no. 12, p. 57-63	676
1963, v. 10, no. 3, p. 66-69	676
1963, v. 10, no. 6, p. 25-29	676
1963, v. 10, no. 10, p. 69-72	676
1963, v. 10, no. 10, p. 76-78	676
Teploprovodnost' Gazov i Zhidkostei, Moscow, 1963, 408p	B-20
Theorie des Gaz Neutres et Ionises, Paris, 1960, p. 187-249	B-17

Journal	Page
Théorie des Graphes et ses Application, Paris, 1958, p. 200-205	659
Ti Chi Hsüeh Pao (Chinese People's Republic) 1954, v. 34, no. 4, p. 371-398	633
Ti I Tzu Ch'uan Kuo Sheng Wu Hua Hsüeh Hsüeh Shu Hui I Hui Kan, Peiping, Sep 62, p. 1-7	610
Sep 62, p. 85-94	610
Titan i Ego Splavi, 1963, v. 9, p. 166-171	675
Tokyo Daigaku Jishin Kenyujo Iho (Japan) 1962, v. 40, no. 2, p. 357-369	634
Toningustrie-Zeitung (Germany) 1926, v. 50, p. 299	648
1927, v. 51, no. 22	649
1928, v. 52, no. 38, p. 757-760; no. 39, p. 782-786	648
1928, v. 52, no. 65, p. 1318-1321	649
1929, v. 53, p. 681-684	649
Trudy Vtorogo Vsesoyuznogo Soveshchaniya po Teorii Avtomaticheskogo Regulirovaniya. Moscow/Leningrad. 1955, v. 1, p. 142-148	659
Tsena i Stoimost'v Sotsialisticheskom Khozyaistve, Moscow, 1963, 245p	681
Tsentral'nyi Nauchno -Issledovatel'skii Institut Geodezii, Aeros"emki i Kartografii. Trudy (USSR) 1962, v. 146, p. 3-15	678
Turkmenskaya Iskra (USSR) 1962, 24 Apr, p. 2	677
Uchenie o Retsikulyatsionnykh Protsessakh v Khimicheskoi Tekhnologii, Moscow, 1958	640
Udarnye Elektro-Magnitnye Volny, Moscow, 1963, 151p	B-18
Ujitok Lapja (Hungary) 1964, v. 16, no. 8, p. 29	601
Ukrainskii Khimicheskii Zhurnal (USSR) 1963, v. 29, no. 7, p. 667-685	628
Urayneniya Matematicheskoi Fiziki, Moscow, 1953	660
Uspekhi Fizicheskikh Nauk (USSR) 1964, v. 83, no. 1, 35-62	604
Uspekhi Khimii (USSR) 1945, v. 14, p. 301-329	627
Uspekhi Sovremennoi Biologii (USSR) 1964, v. 57, no. 2, p. 211-231	607
Vechernaya Moskva (USSR) 1964, 12 Feb, p. 2	617
Vektornye Polya na Ploskosti, Moscow, 1963, 246p	B-18
Verein Deutscher Ingenieure. Zeitschrift (Germany) 1931, v. 75, no. 16, p. 481-486	638
1957, v. 99, no. 7, p. 274-279	651
Vereinigung der Grosskessel-besitzer. Mitteilungen (West Germany) 1964, no. 88, p. 26-33	664
Veroyatnostnye Metody v Teorii Chisel, 2d. ed., Vil'nius, 1962, 220p.	659
Vestnik Khirurgii (USSR) 1963, v. 90, no. 4, p. 73-82	617
Vestnik Mashinostroeniya (USSR) 1963, v. 43, no. 10, p. 86-88	646
Vestnik Sel'skokhozyaistvennoi Nauki (USSR) 1964, v. 9, no. 4, p. 12-14	603
1964, v. 9, no. 4, p. 52-54	602
Vestnik Statistiki (USSR) 1964, no. 3, p. 8-15, 63-71	661
Vestnik Vysshei Shkoly (USSR) 1964, v. 22, no. 2, p. 3-6	638
Veterinariya (USSR) 1957, v. 34, no. 3, p. 27-30	603
1963, v. 40, no. 10, p. 31	603
Veterinariya (USSR) (con) 1964, v. 41, no. 5, p. 23-25	603
1964, v. 41, no. 5, p. 25-27	603
1964, v. 41, no. 5, p. 32-37	603
1964, v. 41, no. 5, p. 38-39	603
Veterinarski Glasnik (Yugoslavia) 1964, v. 18, no. 3, p. 331-357, 359-368, 371-378, 397-401, 406-412	606
Vliyanie Neitronnogo Obiucheniya na Vnutrennee Trenie, Moscow, 1962, 37p.	B-18
Voprosy Antropologii (USSR) 1963, no. 13, p. 52-68	606
Voprosy Filosofii (USSR) 1963, v. 17, no. 12, p. 16-34, 160-167	605
1964, v. 18, no. 5, p. 3-12	679
Voprosy Geografii (USSR) 1962, v. 59, p. 132-144	633
Voprosy Kosmogonii (USSR) 1952, v. 1, p. 1-285	604
1954, v. 2, p. 1-363	604
1957, v. 5, p. 1-299	604
1960, v. 7, p. 1-383	604
Voprosy Meditsinskoi Khimii (USSR) 1964, v. 10, no. 3, p. 252-256	614
1964, v. 10, no. 3, p. 305-310	610
Voprosy Onkologii (USSR) 1964, v. 10, no. 5, p. 44-49, 103-107	613
Voprosy Psikhologii (USSR) 1964, v. 10, no. 3, p. 131-139	607
Voprosy Virusologii (USSR) 1963, v. 8, no. 4, p. 452-456	615
Vsesoyuznoe Gidrobiologicheskoe Obshchestvo. Trudy (USSR) 1961, v. 11, p. 265-284	637
Vsesoyuznoe Mineralogicheskoe Obshchestvo. Zapiski (USSR) 1961, v. 90, no. 6, p. 637-642	635
Vsesoyuznoe Obshchestvo po Rasprostraneniyu Politicheskikh i Nauchnykh Znanii. Seriya 4 (USSR) 1957, no. 29	678
Vsesoyuznyi Nauchno-Issledovatel'skii Institut Morskogo Rybnogo Khozyaistva i Okeanografii. Trudy (USSR) 1963, v. 48, p. 13-76	633
Vvedenie v Gidrodinamicheskie Metody Kratkosrochnogo Prognoza Pogody, Moscow, 1957, 375p.	631
Vvedenie v Teoriyu Podobiya, Moscow, 1963, 254p.	B-18
Vvedenie v Yadernuyu Fiziku, Moscow, 1963, 588p.	B-19
Vysokomolekulyarnye Soedineniya (USSR) 1963, v. 5, no. 11, p. 1684-1690	655
1964, v. 6, no. 1, p. 137-143	675
Wasserbau Versuchsanstalt, Kochelsee G.m.b.H. (Germany) Rept. 66/97, n.d.	662
Wehrtechnische Hefte (West Germany) 1955, Feb.	669
Werkstatt und Betrieb (West Germany) 1951, v. 84, no. 5, p. 225-231	663
Wu Li Hsüeh Pao (Chinese People's Republic) 1963, v. 19, no. 3, p. 160-164	675
Yakugaku Zasshi (Japan) 1953, v. 73, no. 4, p. 415	610
1963, v. 83, no. 11, p. 1005-1015	617
Zarys Astronomii Steryczncj i Praktycznej dla Topografow i Geodetow, Warsaw, 1955, 199p.	604
Zdorov'e (USSR) 1964, v. 10, no. 1, p. 3-4, 6-7, 10	607
Zdravookhranenie Rossiiskoi Federatsii (USSR) 1964, v. 8, no. 5, p. 3-4	617
1964, v. 8, no. 5, p. 4-8	607
Zeitschrift für Angewandte Physik (West Germany) 1963, v. 16, no. 1, p. 1-5	675
Zeitschrift für Anorganische und Allgemeine Chemie (East Germany) 1909, v. 63, no. 1, p. 1-48	620
1911, v. 73, no. 2, p. 200-222	648
1912, v. 73, no. 3, p. 293-303	620
1912, v. 75, no. 1, p. 63-67	649
1926, v. 157, no. 1/3, p. 290-298	620
1956, v. 286, no. 3/4, p. 146-148	623
1964, v. 328, no. 1/2, p. 1-112; 5/6, p. 219-318; v. 329, no. 1/6, p. 3-308	618
Zeitschrift für die Gesamte Textil-Industrie (West Germany) 1961, v. 63, no. 11, p. 933-938	653
1963, v. 65, p. 108-111	652
Zeitschrift für Elektrochemie (West Germany) 1926, v. 32, p. 354-362	648
1951, v. 55, no. 6, p. 475-481	628
1953, v. 57, no. 3, p. 189-194	628
1956, v. 60, no. 8, p. 804-815	630
1956, v. 60, no. 8, p. 816-822	675
1956, v. 60, no. 8, p. 823-827	628
1956, v. 60, no. 8, p. 828-831	629
1956, v. 60, no. 8, p. 831-835	627
1956, v. 60, no. 8, p. 835-838	628
1956, v. 60, no. 8, p. 866-869	629
1956, v. 60, no. 8, p. 869-874	630
1956, v. 60, no. 8, p. 874-887	629
1956, v. 60, no. 8, p. 887-891	629
1956, v. 60, no. 8, p. 892-898	630
1956, v. 60, no. 8, p. 898-905	629
1956, v. 60, no. 8, p. 905-911	627
1957, v. 61, no. 9, p. 1241-1246	629
Zeitschrift für Erzbergbau und Metallhüttenwesen (West Germany) 1955, v. 8, no. 3, p. 101-104	639
1955, v. 8, no. 3, p. 104-106	639
Zeitschrift für Metallkunde (West Germany) 1938, v. 30, no. 9, p. 297-298	663
1946, v. 37, no. 1/2, p. 17-23	628
1951, v. 42, no. 2, p. 34-43	667
1964, v. 55, no. 3, p. 142-145	664
Zeitschrift für Naturforschung (West Germany) 1951, v. 6b, no. 8, p. 458-459	621
1957, v. 12b, no. 1, p. 67-68	623
1963, v. 18a, no. 11, p. 1169-1181	674
Zeitschrift für Physik (Germany) 1932, v. 75, p. 145-170	B-18
1933, v. 80, no. 11/12, p. 755-762	675
1938, v. 108, p. 55-84	675
Zeitschrift für Physikalische Chemie, Leipzig (East Germany) 1963, v. 223, no. 5/6, p. 405-411	673
Zeitschrift für Vergleichende Physiologie (West Germany) 1963, v. 47, p. 316-338	618
Zeitschrift für Wissenschaftliche Mikroskopie und Mikroskopische Technik (West Germany) 1964, v. 65, no. 7, p. 430-433	667
Zement (Germany) 1921, v. 10, p. 294-295, 306-308, 328-332	650
1922, v. 11, p. 487-489, 499-500, 507-509, 515-516	648
1923, v. 12, p. 279-280	649
1924, v. 13, p. 512	649
1924, v. 13, p. 543-544	650
1924, v. 13, p. 666-669, 679-681	648
1934, v. 23, no. 36, p. 511-514	650
1934, v. 23, no. 48, p. 705-708	648
1935, v. 24, no. 14, p. 217-219	648
1936, v. 25, no. 14, p. 218-221	650
1941, v. 30, no. 7, p. 83-85; no. 8, p. 100-103	650
Zement-Kalk-Gips (West Germany) 1953, v. 6, no. 3, p. 69-78	649
Zement-Kalk-Gips, 1963, v. 16/52, no. 9, p. 370-375	630
Zheleznodorozhnyi Transport (USSR) 1963, v. 45, no. 9, p. 53-55	646
1963, v. 45, no. 10, p. 47-48	647
1963, v. 45, no. 11, p. 20-22	648
1963, v. 45, no. 11, p. 25-29	647
1963, v. 45, no. 11, p. 29-34	648
1963, v. 45, no. 11, p. 68-70	647
1963, v. 45, no. 12, p. 11-14	647
1963, v. 45, no. 12, p. 18-20	647
1963, v. 45, no. 12, p. 80	647
1963, v. 45, no. 12, p. 82-83	648

Journal	Page
Zhurnal Analiticheskoi Khimii (USSR)	
1947, v. 2, no. 6, p. 373-376	619
Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki (USSR)	
1940, v. 10, no. 6, p. 589-600	673
1951, v. 21, no. 10, p. 1139-1145	672
1952, v. 23, no. 2(8) p. 129-139	672
1952, v. 23, no. 5(11) p. 517-524	669
1954, v. 26, no. 3, p. 307-316	674
1954, v. 27, no. 4(10) p. 425-430	669
1963, v. 45, no. 6, p. 1693-2115; 1964, v. 46, no. 1, p. 3-406; no. 2, p. 409-818; no. 3, p. 821-1155	C-329
1964, v. 46, no. 1, p. 142-147	668
Zhurnal Fizicheskoi Khimii (USSR)	
1947, v. 21, no. 7, p. 879-880	675
1948, v. 22, no. 1, p. 49-51	628
1955, v. 29, no. 7, p. 1311-1317	627
1956, v. 30, no. 4, p. 912-921	629
1957, v. 31, no. 3, p. 554-562	622
1959, v. 33, no. 6, p. 1198-1208	627
1963, v. 37, no. 5, p. 1169-1172	629
Zhurnal Mikrobiologii Epidemiologii i Immunobiologii (USSR)	
1963, v. 40, no. 8, p. 24-29	616
Zhurnal Nauchnoi i Prikladnoi Fotografii i Kinematografii (USSR)	
1963, v. 8, no. 3, p. 216-228	654
1963, v. 8, no. 3, p. 230-244	654
1963, v. 8, no. 6, p. 401-404	654
1963, v. 8, no. 6, p. 419-426	654
1963, v. 8, no. 6, p. 434-437	654
1963, v. 8, no. 6, p. 460-461	654
1963, v. 8, no. 6, p. 463-465	654
1963, v. 8, no. 6, p. 468-470	654
1964, v. 9, no. 1, p. 11-14	654
1964, v. 9, no. 1, p. 57-59	654
Zhurnal Nevropatologii i Psikhiatrii (USSR)	
1960, v. 60, no. 9, p. 1096-1100	613
Zhurnal Obshchei Khimii (USSR)	
1938, v. 8, no. 4, p. 319-329	623
1947, v. 17, no. 1, p. 122-129	625
1953, v. 23, no. 3, p. 450-463	623
1957, v. 27, no. 11, p. 2972-2974	625
Zhurnal Prikladnoi Khimii (USSR)	
1957, v. 30, no. 1, p. 120-124	673
Zhurnal Prikladnoi Mekhaniki i Tekhnicheskoi Fiziki (USSR)	
1963, no. 2, p. 173-174	643
1963, no. 4, p. 68-73, 88-93	661
1963, no. 6, p. 74-79	643
Zhurnal Tekhnicheskoi Fiziki (USSR)	
1942, v. 12, no. 10, p. 632-639	672
1951, v. 21, no. 5, p. 564-572	662
Zhurnal Vychislitel'noi Matematiki i Matematicheskoi Fiziki (USSR)	
1964, v. 4, no. 2, p. 292-305	660
1964, v. 4, no. 2, p. 376-379	660
Zoologicheskii Zhurnal (USSR)	
1961, v. 40, no. 11, p. 1619-1623	616
1964, v. 43, no. 6, p. 801-807, 809-814	617

NUMBER INDEX

Number	Page
ACSI-I-2487	643
ACSI-I-3519	632
AD-422 483	678
AD-602 127	605
AD-602 128	672
AD-602 147	672
AD-602 148	637
AD-602 179	659
AD-602 180	605
AD-602 181	655
AD-602 308	662
AD-602 309	638
AD-602 319	646
AD-602 350	678
AD-602 358	672
AD-602 385	612
AD-602 398	670
AD-602 399	660
AD-602 400	660
AD-602 401	631
AD-602 402	659
AD-602 403	659
AD-602 405	617
AD-602 629	675
AD-602 630	642
AD-602 631	642
AD-602 634	646
AD-602 687	641
AD-602 688	642
AD-602 689	638
AD-602 876	661
AD-602 878	642
AD-602 879	617
AD-602 880	642
AD-602 896	673
AD-602 906	667
AD-602 995	662
AD-602 996	605
AD-602 997	653
AD-602 998	608
AD-602 999	608
AD-603 000	638
AD-603 001	642
AD-603 009	619
AD-603 010	616
AD-603 061	642
AD-603 322	631
AD-603 326	643
AD-603 330	680
AD-603 331	660
AD-603 332	630
AD-604 328	605
AD-604 329	674
AD-604 330	674
AD-604 331	641
AD-604 342	642
AD-604 459	659
AD-604 515	644
AD-604 517	671
AD-604 518	671
AD-604 519	670
AD-604 535	661
AD-604 536	680
AD-604 537	659
AD-604 538	660
AD-604 756	670
AD-604 757	638
AD-604 758	637
AD-604 759	670
AD-604 760	669
AD-604 761	670
AD-604 762	670
AD-604 763	669
AD-604 764	644
AD-604 766	644
AD-604 767	644
AD-604 768	644
AD-604 769	669
AD-604 770	660
AD-604 771	662
AD-604 772	681
AD-604 773	669
AD-604 774	681
AD-604 775	680
AD-604 776	681
AD-604 777	669
AD-604 778	671
AD-604 780	670
AD-604 781	670
AD-604 782	668
AD-604 783	662
AD-604 784	679
AD-604 785	644
AD-604 786	605
AD-604 787	678
AD-604 788	638
AD-604 789	662
AEC-tr-2431	675
AEC-tr-3874	669
AEC-tr-5758	667
AEC-tr-5918	675
AEC-tr-6074	629
AEC-tr-6112	617
AEC-tr-6115	650
AEC-tr-6117	671
AEC-tr-6118	671
AEC-tr-6277	668
AEC-tr-6367	674
AEC-tr-6400	643
AEC-tr-6401	676
AEC-tr-6402	676
AEC-tr-6403	676
AEC-tr-6411	667
AEC-tr-6414	676
AID-P-64-44	672
AmMetSoc-T-R-399	672
AmMetSoc-T-R-405	672
AmMetSoc-T-R-414	672
AmMetSoc-T-R-421	637
AmMetSoc-T-R-427	605
AmMetSoc-T-R-433	655
ANL-Trans-9	670
ANL-Trans-12	637
ANL-Trans-16	669
ANL-Trans-24	662
ANL-Trans-25	669
ANL-Trans-27	672
ANL-Trans-32	668
ANL-Trans-39	629
ATS-6K20R	624
ATS-16K22R	623
ATS-41R77R	637
ATS-53J14R	628
BISI-3508	666
BISI-3579	663
BISI-3583	664
BISI-3595	666
BISI-3652	664
BISI-3675	665
BISI-3679	666
BISI-3689	665
BISI-3696	664
BISI-3704	665
BISI-3717A	664
BISI-3723	663
BISI-3728	666
BISI-3738	667
BISI-3742	666
BISI-3743	665
BISI-3755	665
BISI-3757	663
BISI-3763	667
BISI-3779	663
BISI-3780	663
BISI-3784	660
BISI-3785	660
BISI-3792	664
CEA-2187	668
CEA-2374	668
DSIS-T-397-R	635
E-T-R-64-20	643
E-T-R-64-24	605
E-TC-Ch-64-20	631
FRBC-Trans-421	637
FT-6014	676
FT-6087	676
FT-6090	676
FT-6092	676
FTD-MT-63-184	631
FTD-MT-63-207	667
FTD-MT-63-262	651
FTD-MT-63-317	660
FTD-MT-63-325	660
FTD-MT-63-334	659
FTD-MT-63-353	678
FTD-MT-64-20	659
FTD-MT-64-41	673
FTD-MT-64-114	662
FTD-MT-64-171	670
FTD-MT-64-266	631
FTD-TT-63-405	646
FTD-TT-63-420	638
FTD-TT-63-651	612
FTD-TT-63-665	610
FTD-TT-63-758	641
FTD-TT-63-814	619
FTD-TT-63-815	616
FTD-TT-63-1041	643
FTD-TT-63-1043	646
FTD-TT-64-45	653
FTD-TT-64-53	608
FTD-TT-64-54	608
FTD-TT-64-67	638
FTD-TT-64-78	642
FTD-TT-64-98	642
FTD-TT-64-160	643
FTD-TT-64-180	638
FTD-TT-64-250	678
FTD-TT-64-259	612
FTD-TT-64-294	642
FTD-TT-64-329	617
FTD-TT-64-348	662
FTD-TT-64-350	675
FTD-TT-64-352	642
FTD-TT-64-361	605
FTD-TT-64-367	642
FTD-TT-64-402	680
FTD-TT-64-416	661
FTD-TT-64-500	660
FTD-TT-64-542	642
FTD-TT-64-544	642
FTD-TT-64-581	617
FTD-TT-64-587	642
FTD-TT-64-615	630
GOST-2639-62	678
HB-5797	663
HB-6124	665
HB-6199	666
HB-6226	664
HB-6236	663
HB-6237	666
HB-6263	664
HB-6277	664
HB-6279	664
HB-6288	664
HW-TR-57	668
IINR-P-1343	669
IINR-P-1383	688
IINR-P-1513	668
JPRS-24041	660
JPRS-24236	616
JPRS-24260	604
JPRS-24347	663
JPRS-24349	607
JPRS-24358	604
JPRS-24372	676
JPRS-24395	605
JPRS-24536	660
JPRS-24635 rev.	672
JPRS-24734	604
JPRS-24735	604
JPRS-24934	677
JPRS-25016	676
JPRS-25016(p. 1-15)	635
JPRS-25016(p. 16-18)	632
JPRS-25016(p. 19-28)	643
JPRS-25016(p. 29-30)	661
JPRS-25070	677
JPRS-25070(p. 6-10)	625
JPRS-25070(p. 11-18)	619
JPRS-25070(p. 19-25)	619
JPRS-25106	641
JPRS-25126	634
JPRS-25174	601
JPRS-25179	646
JPRS-25191	677
JPRS-25191(p. 1-12)	623
JPRS-25191(p. 13-21)	625
JPRS-25225	671
JPRS-25263	677
JPRS-25318	604
JPRS-25319	680
JPRS-25321	679
JPRS-25323	679
JPRS-25324	665
JPRS-25325	606
JPRS-25326	618
JPRS-25332	606
JPRS-25334	679
JPRS-25335	678
JPRS-25336	671
JPRS-25337	606
JPRS-25337(p. 1-15)	610
JPRS-25337(p. 16-24)	610
JPRS-25337(p. 25-30)	613
JPRS-25337(p. 31-44)	678
JPRS-25338	614
JPRS-25340	610
JPRS-25341	638
JPRS-25343	601
JPRS-25344	672
JPRS-25345	601
JPRS-25346	681
JPRS-25348	603
JPRS-25349	632
JPRS-25350	617
JPRS-25351	647
JPRS-25352	605
JPRS-25353	611
JPRS-25354	611
JPRS-25355	679
JPRS-25357	616
JPRS-25360	661
JPRS-25364	607
JPRS-25365	637
JPRS-25366	661
JPRS-25367	618
JPRS-25370	680
JPRS-25374	678
JPRS-25376	681
JPRS-25378	613
JPRS-25388	613
JPRS-25389	637
JPRS-25390	679
JPRS-25391	664
JPRS-25393	679
JPRS-25394	679
JPRS-25396	679
JPRS-25397	681
JPRS-25398	631
JPRS-25399	605
JPRS-25400	602
JPRS-25401	679
JPRS-25402	611
JPRS-25403	606
JPRS-25404	618
JPRS-25407	641
JPRS-25410	678
JPRS-25412	681
JPRS-25413	679
JPRS-25414	607
JPRS-25415	679
JPRS-25416	679
JPRS-25418	679
JPRS-25422	671
JPRS-25423	645
JPRS-25425	680
JPRS-25426	638
JPRS-25427	605
JPRS-25430	606
JPRS-25431	605
JPRS-25432	681
JPRS-25434	662
JPRS-25442	618
JPRS-25457	681
JPRS-25462	604
JPRS-25470	645
JPRS-25470(p. 13-16)	646
JPRS-25477	612
JPRS-25482	647
JPRS-25483	680
JPRS-25490	647
JPRS-25491	639
JPRS-25492	606
JPRS-25494	677
JPRS-25502	617
JPRS-25505	616
JPRS-25509	631
JPRS-25516	666
JPRS-25520	642
JPRS-25521	667
JPRS-25523	678
JPRS-25524	663
JPRS-25525	677
JPRS-25526	612

Number	Page
JPRS-25530	628
JPRS-25532	638
JPRS-25533	611
JPRS-25540	641
JPRS-25541	618
JPRS-25542	601
JPRS-25543	671
JPRS-25544	615
JPRS-25545	605
JPRS-25547	665
JPRS-25554	677
JPRS-25557	630
JPRS-25558	666
JPRS-25559	607
JPRS-25562	678
JPRS-25565	611
JPRS-25567	672
JPRS-25573	677
JPRS-25574	647
JPRS-25575	644
JPRS-25590	606
JPRS-25593	608
JPRS-25594	608
JPRS-25595	680
JPRS-25596	671
JPRS-25597	618
JPRS-25599	608
JPRS-25600	607
JPRS-25601	607
JPRS-25602	677
JPRS-25604	680
JPRS-25606	665
JPRS-25608	606
JPRS-25611	646
JPRS-25613	666
JPRS-25628	665
JPRS-25630	617
JPRS-25632	680
JPRS-25633	617
JPRS-25635	615
JPRS-25636	660
JPRS-25637	660
JPRS-25640	606
JPRS-25641	604
JPRS-25646	665
JPRS-25650	614
JPRS-25651	607
JPRS-25659	638
JPRS-25662	666
JPRS-25665	614
JPRS-25667	610
JPRS-25675	680
JPRS-25677	609
JPRS-25681	665
JPRS-25682	645
JPRS-25683	606
JPRS-25686	615
JPRS-25688	604
JPRS-25689	645
JPRS-25690	671
JPRS-25692	668
JPRS-25694	630
JPRS-25698	606
JPRS-25705	605
JPRS-25707	601
JPRS-25708	612
JPRS-25713	618
JPRS-25714	678
JPRS-25723	602
JPRS-25729	637
JPRS-25733	622
JPRS-25751	677
JPRS-25760	680
JPRS-25763	682
JPRS-25769	677
JPRS-25787	681
JPRS-25790	639
JPRS-25793	617
JPRS-25796	614
JPRS-25805	607
JPRS-25807	646
JPRS-25808	606
JPRS-25809	604
JPRS-25810	607
JPRS-25811	673
JPRS-25814	678
JPRS-25815	617
JPRS-25819(p. 1-23)	677
JPRS-25819(p. 48-50)	616
JPRS-25819(p. 61-64)	613
JPRS-25819(p. 65-75)	603
JPRS-25822	680
JPRS-25827	603
JPRS-25828	645
JPRS-25828(p. 1-11)	646
JPRS-25831	645
JPRS-25832	647
JPRS-25833	601
JPRS-25833(p. 1-2)	602
JPRS-25833(p. 3-5)	602
JPRS-25833(p. 6-7)	602
JPRS-25833(p. 8-9)	602
JPRS-25834	642
JPRS-25848	618
JPRS-25853	678
JPRS-25862	671
JPRS-25863	672
JPRS-25864	677
JPRS-25867	667
JPRS-25868	640
JPRS-25873	614
JPRS-25878	665
JPRS-25883	681
JPRS-25885	646
JPRS-25897	611
JPRS-25907	638
JPRS-25908	645
JPRS-25909	659
JPRS-25910	618
JPRS-25911	606
JPRS-25912	673
JPRS-25915	666
JPRS-25916	602
JPRS-25929	607
JPRS-25936	644
JPRS-25946	613
JPRS-25956	602
JPRS-25963	668
JPRS-25965	645
JPRS-25970	618
JPRS-25973	647
JPRS-25975	607
JPRS-25984	601
JPRS-25988	630
JPRS-26005	680
JPRS-26009	607
JPRS-26015	607
JPRS-26016	617
JPRS-26021	617
JPRS-26022	680
NAMRU-Trans-85	613
NAMRU-Trans-99	613
NIH-5-33-64	616
NIH-5-34-64	615
NIH-6-2-64	613
NP-tr-1119	672
NP-tr-1128	668
NP-tr-1133	669
NP-tr-1137	688
NRC-C-4657	637
NRC-C-4925	635
NRC-C-4926	632
NRC-C-4942	616
NRC-C-4946	635
NRC-C-4947	632
NRC-C-4949	635
NRC-DBR-115	632
NRC-DBR-116	632
NRC-TT-1117	632
NRC-TT-1121	632
NRC-TT-1133	616
ORNL-tr-32	669
ORNL-tr-65	670
ORNL-tr-79	668
ORNL-tr-107	676
ORNL-tr-108	676
PAL-64-9	601
PB-166 248	601
PL-480 Agr(TT-63-11009)	611
PL-480 Agr(TT-64-11007)	612
PL-480 Agr(TT-64-11078	623
PL-480 Comm (TT-61-11308)	604
PL-480 Comm (TT-63-11001)	642
PL-480 HEW (TT-63-11414/1-2)	612
PL-480 Smi (TT-64-11026	618
RSIC-232	641
RSIC-235	605
RSIC-236	674
RSIC-237	674
RT-340	659
RT-1410	670
RTS-2477	667
RT-2487	673
RT-4000	605
RTS-2512	676
RTS-2546	640
RTS-2553	628
RTS-2566	603
RT-2598	644
SA-Code-P-309	657
SA-Code-P-310	639
SA-Code-P-311	656
SA-Code-P-312	625
SA-Code-P-313	658
SA-Code-P-314	653
SA-Code-P-315	653
SA-Code-P-316	602
SA-Code-P-317	602
SA-Code-P-318	640
SA-Code-P-319	640
SA-Code-P-320	657
SA-Code-P-321	655
SA-Code-P-322	656
SA-Code-P-323	602
SA-Code-P-324	627
SA-Code-P-325	657
SA-Code-P-326	653
SA-Code-P-327	653
SA-Code-P-328	653
SA-Code-P-329	658
SA-Code-P-330	657
SA-Code-P-331	625
SA-Code-P-332	657
SA-Code-P-336	625
SA-Code-P-338	625
SA-Code-P-339	663
SA-Code-P-341	656
SA-Code-P-342	655
SA-Code-P-343	656
SA-Code-P-345	657
SA-Code-P-346	658
SA-Code-P-347	658
SA-Code-P-348	640
SA-Code-P-349	656
SA-Code-P-350	656
SA-Code-P-351	656
SA-Code-P-352	622
SA-Code-P-353	624
SA-Code-P-354	625
SA-Code-P-355	656
SA-Code-P-356	657
SA-Code-P-357	658
SC-T-513	658
SLA-1934	664
SLA-2955	621
SLA-57-752	651
SLA-57-2681	628
SLA-58-665	662
SLA-58-766	681
SLA-58-769	681
SLA-58-771	681
SLA-58-772	662
SLA-58-775	662
SLA-58-778	669
SLA-58-816	659
SLA-58-823	638
SLA-58-1373	627
SLA-58-1535	667
SLA-58-2681	641
SLA-AL-841	627
SLA-I-879	638
SLA-II-738	675
SLA-R-523	670
SLA-R-527	669
SLA-R-528	670
SLA-R-538	670
SLA-R-539	670
SLA-R-688	681
SLA-R-3399	670
SLA-R-3400	670
SLA-R-3401	669
SLA-R-3404	671
SLA-R-3406	671
SLA-R-3407	637
SLA-R-3410	670
SLA-R-3412	678
SLA-R-3566	679
SLA-R-3567	605
SLA-R-3568	671
SLA-R-3569	644
SLA-R-3570	644
SLA-R-3572	644
SLA-R-3573	644
SLA-R-3574	644
SLA-R-3575	670
SLA-R-3581	670
SLA-R-3582	668
SLA-R-3583	670
SLA-R-3585	670
SLA-R-3586	669
SLA-R-3587	659
SLA-R-3592	644
SLA-R-3593	638
SLA-R-3594	680
SLA-R-3595	660
SLA-R-3740	661
SLA-R-4245	624
SLA-R-4342	626
SLA-R-5169	623
SLA-R-00526	644
SLA-R-00529	670
SLA-R-00530	669
SLA-R-00534	671
SLA-R-00727	679
SLA-R-00728	644
T-1	662
T-2	638
T-6	662
T-21	669
T-22	660
T-24	662
T-25	681
T-28	680
T-29	681
T-32	681
T-35, pt. 3	670
T-35, pt. 4	668
T-35, pt. 5	670
T-35, pt. 6	670
T-35, pt. 11	671
T-36	679
T-37	644
T-38	644
T-39	605
T-41, pt. 1	644
T-41, pt. 2	644
T-41, pt. 3	644
T-41, pt. 4	671
T-41, pt. 6	671
T-42, pt. 3	669
T-42, pt. 4	670
T-42, pt. 5	670
T-42, pt. 6	670
T-42, pt. 7	669
T-42, pt. 8	670
T-43	669
T-44, pt. 1	644
T-45	659
T-46	638
T-47	637
T-48	660
T-49	661
T-50	680
T-51	659
T-79	678
T-106	669
TRS-2548	645

Number	Page
TT-59-10817 see TT-64-71267	669
TT-61-11147-87	604
TT-61-11147-88	604
TT-61-11308	604
TT-63-11001	642
TT-63-11009	611
TT-63-11414/1-2	612
TT-63-23154-(28/1-30/6) rev. (MICROBIOLOGY)	611
TT-63-23426-(112-141) rev. (DOKLADY)	606
TT-63-23427-(112-141) rev. (DOKLADY)	606
TT-63-23428-(118-141) rev. (DOKLADY)	608
TT-63-23430-(4/1-8/6) rev. (PLANT)	611
TT-64-11007	612
TT-64-11026	618
TT-64-11078	623
TT-64-11818	605
TT-64-11819	672
TT-64-11820	637
TT-64-11821	672
TT-64-11822	605
TT-64-11823	655
TT-64-11842	632
TT-64-11843	662
TT-64-11844	638
TT-64-11854	646
TT-64-11876	678
TT-64-11877	672
TT-64-11886	670
TT-64-11887	660
TT-64-11888	660
TT-64-11889	631
TT-64-11890	659
TT-64-11891	659
TT-64-11892	661
TT-64-11893	617
TT-64-11895	612
TT-64-11977	675
TT-64-11978	642
TT-64-11979	642
TT-64-11980	646
TT-64-12443-3 (SOVIET)	630
TT-64-12443-3 (p. 211-225) (Mikel)	631
TT-64-12443-3 (p. 226-252) (Vorob'ev)	631
TT-64-12443-3 (p. 253-275) (Znamenskaya)	631
TT-64-12443-3 (p. 275-278) (Shults)	631
TT-64-12443-3 (p. 279-284) (Dement'ev)	630
TT-64-12443-3 (p. 284-288) (Gorbunov)	630
TT-64-12443-3 (p. 288-289) (Ivanenko)	631
TT-64-12443-3 (p. 289-294) (Bagrov)	630
TT-64-12443-3 (p. 295-296) (Apollov)	630
TT-64-12443-3 (p. 297-307) (Gordeev)	631
TT-64-12802-3 (INTERNATIONAL)	632
TT-64-12802-3 (p. 379-386) (Makunina)	633
TT-64-12802-3 (p. 387-399) (Korzhinskii)	636
TT-64-12802-3 (p. 400-404) (Yarosh)	635
TT-64-12802-3 (p. 405-419) (Prozorovich)	634
TT-64-12802-3 (p. 420-429) (Matsuda)	634
TT-64-12802-3 (p. 430-434) (Borovko)	635
TT-64-12802-3 (p. 435-438) (Stishov)	635
TT-64-12802-3 (p. 439-449) (Khain)	633
TT-64-12802-3 (p. 450-458) (Lebedev)	636
TT-64-12802-3 (p. 459-477) (Sano)	634
TT-64-12802-3 (p. 478-486) (Sobolev)	636
TT-64-12802-3 (p. 487-490) (Karaushev)	636
TT-64-12802-3 (p. 495-506) (Tvalchrelidze)	636
TT-64-12802-3 (p. 507-518) (Suvorov)	635
TT-64-12802-3 (p. 519-530) (Shutov)	635
TT-64-12802-3 (p. 531-540) (Koporulin)	633
TT-64-12802-3 (p. 541-552) (Kats)	636
TT-64-12802-3 (p. 553-554) (Skripchenko)	636
TT-64-12802-7 (INTERNATIONAL)	632
TT-64-12802-7 (p. 1143-1153) (Nekrasov)	634
TT-64-12802-7 (p. 1154-1159) (Kazanskii)	633
TT-64-12802-7 (p. 1160-1173) (Nevskii)	634
TT-64-12802-7 (p. 1174-1176) (Borodulin)	632
TT-64-12802-7 (p. 1177-1216) (Li)	633
TT-64-12802-7 (p. 1225-1232) (Ruzhentsov)	634
TT-64-12802-7 (p. 1233-1241) (Nikitin)	634
TT-64-12802-7 (p. 1242-1248) (Krasheninnikov)	633
TT-64-12802-7 (p. 1249-1253) (Frolova)	633
TT-64-12802-7 (p. 1254-1266) (Prokhorov)	634
TT-64-12802-7 (p. 1267-1272) (Mogarovskii)	634
TT-64-12802-7 (p. 1273-1278) (Shcherbakov)	635
TT-64-12802-7 (p. 1279-1293) (Chukhrov)	633
TT-64-12802-7 (p. 1294-1304) (Ez)	633
TT-64-12802-7 (p. 1305-1309) (Vlodarskaya)	635
TT-64-12802-7 (p. 1310-1311) (Yakovlev)	635
TT-64-15231	643
TT-64-15232	610
TT-64-15252	612
TT-64-15634	613
TT-64-15638	613
TT-64-15748(AEC-tr-5918)	675
TT-64-16110	674
TT-64-16111	614
TT-64-16149	627
TT-64-16155	625
TT-64-16197	639
TT-64-16200	651
TT-64-16201	642
TT-64-16202	613
TT-64-16203	609
TT-64-16206	672
TT-64-16208	615
TT-64-16209	608
TT-64-16210	639
TT-64-16239	614
TT-64-16240	614
TT-64-16241	614
TT-64-16277	650
TT-64-16296	659
TT-64-16324	629
TT-64-16326	619
TT-64-16365	630
TT-64-16367	644
TT-64-16394	675
TT-64-16497	668
TT-64-16502	669
TT-64-16515	624
TT-64-16516	658
TT-64-16522	651
TT-64-16532	651
TT-64-16575	674
TT-64-16582	667
TT-64-16599	651
TT-64-16611	673
TT-64-16621	674
TT-64-16712	620
TT-64-16713	626
TT-64-16714	623
TT-64-16715	620
TT-64-16716	620
TT-64-16718	626
TT-64-16719	656
TT-64-16721	623
TT-64-16771	621
TT-64-16806	610
TT-64-16808	658
TT-64-16809	675
TT-64-16810	628
TT-64-16811	629
TT-64-16812	655
TT-64-16813	651
TT-64-16815	627
TT-64-16816	628
TT-64-16817	624
TT-64-16818	651
TT-64-16819	622
TT-64-16820	640
TT-64-16822	657
TT-64-16823	624
TT-64-16824	620
TT-64-16825	623
TT-64-16826	630
TT-64-16827	655
TT-64-16828	658
TT-64-16832	616
TT-64-16837	675
TT-64-16843	649
TT-64-16849	614
TT-64-16851	613
TT-64-16852	615
TT-64-16858	616
TT-64-16891	627
TT-64-16900	628
TT-64-16916	659
TT-64-16927	675
TT-64-16940	607
TT-64-16943	615
TT-64-16946	675
TT-64-16953	673
TT-64-16955	673
TT-64-16956	674
TT-64-16962	618
TT-64-16964	673
TT-64-16972	627
TT-64-16975	637
TT-64-16979	622
TT-64-16993	675
TT-64-16994	632
TT-64-16995	632
TT-64-16996	637
TT-64-16997	638
TT-64-16998	632
TT-64-16999	652
TT-64-18002	641
TT-64-18008	641
TT-64-18026	622
TT-64-18033	616
TT-64-18038	640
TT-64-18039	639
TT-64-18040	621
TT-64-18041	626
TT-64-18042	655
TT-64-18043	644
TT-64-18044	656
TT-64-18045	655
TT-64-18046	626
TT-64-18047	609
TT-64-18048	622
TT-64-18049	652
TT-64-18050	645
TT-64-18051	644
TT-64-18052	645
TT-64-18053	649
TT-64-18054	655
TT-64-18055	655
TT-64-18056	654
TT-64-18057	639
TT-64-18058	645
TT-64-18059	626
TT-64-18060	619
TT-64-18067	612
TT-64-18068	646
TT-64-18069	647
TT-64-18070	648
TT-64-18071	647
TT-64-18072	648
TT-64-18073	647
TT-64-18074	647
TT-64-18075	647
TT-64-18076	647
TT-64-18077	648
TT-64-18078	647
TT-64-18083	673
TT-64-18084	624
TT-64-18085	658
TT-64-18086	626
TT-64-18087	629
TT-64-18088	630
TT-64-18089	629
TT-64-18090	629
TT-64-18091	629
TT-64-18092	630
TT-64-18093	639
TT-64-18094	673
TT-64-18095	637
TT-64-18097	658
TT-64-18098	627
TT-64-18099	625
TT-64-18100	620
TT-64-18102	620
TT-64-18105	643
TT-64-18107	642
TT-64-18110	648
TT-64-18111	662
TT-64-18112	655
TT-64-18113	653
TT-64-18114	621
TT-64-18115	650
TT-64-18116	654
TT-64-18119	674
TT-64-18121	656
TT-64-18122	628
TT-64-18123	628
TT-64-18124	675
TT-64-18125	629
TT-64-18127	675
TT-64-18128	619
TT-64-18129	658
TT-64-18130	653
TT-64-18131	652
TT-64-18132	652
TT-64-18134	652
TT-64-18135	656
TT-64-18136	612
TT-64-18137	646
TT-64-18139	615
TT-64-18140	610
TT-64-18141	609
TT-64-18142	614
TT-64-18143	615
TT-64-18144	608
TT-64-18146	615
TT-64-18147	608
TT-64-18148	617
TT-64-18168	651
TT-64-18169	620
TT-64-18170	658
TT-64-18171	646
TT-64-18174	674
TT-64-18175	662
TT-64-18176	662
TT-64-18179	662
TT-64-18181	646
TT-64-18182	663
TT-64-18183	643
TT-64-18191	650
TT-64-18194	650
TT-64-18196	650
TT-64-18197	648
TT-64-18201	649
TT-64-18210	649
TT-64-18213	620
TT-64-18218	648
TT-64-18225	648
TT-64-18226	648
TT-64-18232	649
TT-64-18236	649
TT-64-18239	649
TT-64-18241	648
TT-64-18244	650
TT-64-18249	649
TT-64-18263	650
TT-64-18266	641
TT-64-18267	649
TT-64-18271	620
TT-64-18278	648
TT-64-18286	648
TT-64-18295	649
TT-64-18307	628
TT-64-18308	648
TT-64-18314	649
TT-64-18322	650
TT-64-18324	650

Number	Page
TT-64-18325	648
TT-64-18328	649
TT-64-18330	649
TT-64-18333	629
TT-64-18337	650
TT-64-18340	650
TT-64-18343	664
TT-64-18345	672
TT-64-18346	653
TT-64-18347	669
TT-64-18351	659
TT-64-18353	667
TT-64-18354	609
TT-64-18355	663
TT-64-18357	638
TT-64-18362	640
TT-64-18369	651
TT-64-18372	619
TT-64-18376	624
TT-64-18400	666
TT-64-18401	651
TT-64-18409	651
TT-64-18410	622
TT-64-18412	627
TT-64-18413	616
TT-64-18417	627
TT-64-18418	642
TT-64-18419	661
TT-64-18422	661
TT-64-18423	661
TT-64-18425	661
TT-64-18426	661
TT-64-18435	622
TT-64-18438	625
TT-64-18439	625
TT-64-18441	625
TT-64-18443	623
TT-64-18444	623
TT-64-18447	653
TT-64--8448	652
TT-64-18449	652
TT-64-18450	652
TT-64-18451	652
TT-64-18452	657
TT-64-18453	650
TT-64-18454	652
TT-64-18455	652
TT-64-18456	621
TT-64-18457	621
TT-64-18458	638
TT-64-18459	621
TT-64-18460	621
TT-64-18461	621
TT-64-18462	645
TT-64-18463	621
TT-64-18464	651
TT-64-18465	655
TT-64-18466	609
TT-64-18467	608
TT-64-18468	608
TT-64-18469	608
TT-64-18470	608
TT-64-18472	624
TT-64-18473	623
TT-64-18474	603
TT-64-18479	622
TT-64-18481	621
TT-64-18483	626
TT-64-18484	625
TT-64-18486	620
TT-64-18489	620
TT-64-18490	620
TT-64-18492	658
TT-64-18500	665
TT-64-18501	674
TT-64-18502	674
TT-64-18505	622
TT-64-18506	641
TT-64-18507	641
TT-64-18508	623
TT-64-18510	622
TT-64-18514	619
TT-64-18515	629
TT-64-18522	667
TT-64-18524	667
TT-64-18527	673
TT-64-18528	654
TT-64-18529	654
TT-64-18530	654
TT-64-18531	654
TT-64-18532	613
TT-64-18533	654
TT-64-18534	654
TT-64-18535	654
TT-64-18536	654
TT-64-18537	678
TT-64-18538	654
TT-64-18542	654
TT-64-18543	654
TT-64-18544	619
TT-64-18545	624
TT-64-18549	675
TT-64-18550	619
TT-64-18576	625
TT-64-18577	623
TT-64-18579	627
TT-64-18591	621
TT-64-18605	676
TT-64-18624	610
TT-64-18633	613
TT-64-18635	614
TT-64-18734	612
TT-64-18736	615
TT-64-18738	616
TT-64-18739	611
TT-64-18740	612
TT-64-18766	626
TT-64-18767	640
TT-64-18769	627
TT-64-18770	640
TT-64-18776	628
TT-64-18777	623
TT-64-18792	674
TT-64-18793	626
TT-64-18794	624
TT-64-18795	623
TT-64-18796	640
TT-64-18800	639
TT-64-18802	624
TT-64-18803	656
TT-64-18804	622
TT-64-18805	623
TT-64-18806	620
TT-64-18807	624
TT-64-18813	626
TT-64-18814	627
TT-64-18816	641
TT-64-18817	640
TT-64-18818	635
TT-64-18819	641
TT-64-18820	615
TT-64-18821	621
TT-64-18826	609
TT-64-18827	609
TT-64-18828	610
TT-64-18829	609
TT-64-18830	609
TT-64-18832	610
TT-64-18834	609
TT-64-18835	609
TT-64-18840	652
TT-64-18843	628
TT-64-18847	639
TT-64-18848	652
TT-64-18849	651
TT-64-18850	627
TT-64-18851	624
TT-64-18853	620
TT-64-18855	639
TT-64-18856	626
TT-64-18857	622
TT-64-18861	667
TT-64-18870	648
TT-64-18872	639
TT-64-18873	655
TT-64-18875	652
TT-64-18876	609
TT-64-18879	653
TT-64-18880	610
TT-64-18881	604
TT-64-18882	663
TT-64-18883	657
TT-64-18885	626
TT-64-18886	624
TT-64-18887	655
TT-64-18888	657
TT-64-18891	652
TT-64-18892	639
TT-64-18893	664
TT-64-18899	628
TT-64-19304(HW-TR-57)	668
TT-64-19306	668
TT-64-19307	669
TT-64-19308	668
TT-64-19309	672
TT-64-19314 (UCRL-trans-735(L))	668
TT-64-19316 (AEC-tr-6074)	629
TT-64-19317(SC-T-513)	658
TT-64-19318 (AEC-tr-5758)	667
TT-64-19322 (AEC-tr-6367)	674
TT-64-19327 (AEC-tr-6277)	668
TT-64-19330 (AEC-tr-6118)	671
TT-64-19331 (AEC-tr-6117)	671
TT-64-19332 (AEC-tr-6115)	650
TT-64-19340	643
TT-64-19341	631
TT-64-19342	672
TT-64-19343	616
TT-64-19344	615
TT-64-19345	613
TT-64-19346	659
TT-64-19348 (SOVIET)	645
TT-64-19352	643
TT-64-19353	628
TT-64-19355	643
TT-64-19356	676
TT-64-19360	636
TT-64-19363	603
TT-64-19364	603
TT-64-19365	603
TT-64-19366	603
TT-64-19367	603
TT-64-19368	643
TT-64-19369	633
TT-64-19370	602
TT-64-19371	603
TT-64-19378	603
TT-64-19379	628
TT-64-19381	645
TT-64-19382	640
TT-64-19388	676
TT-64-19390	667
TT-64-19567 (AEC-tr-6112)	617
TT-64-19575 (AEC-tr-6411)	667
TT-64-19576 (AEC-tr-6400)	643
TT-64-19577 (AEC-tr-6401)	676
TT-64-19579 (AEC-tr-6402)	676
TT-64-19580 (ANL-Trans-25)	669
TT-64-19584 (AEC-tr-6414)	676
TT-64-19586 (AEC-tr-6403)	676
TT-64-19587 (AEC-tr-3874)	669
TT-64-19588 (ANL-Trans-9)	670
TT-64-19591 (ORNL-tr-79)	668
TT-64-19594 (ANL-Trans-12)	637
TT-64-19596 (ANL-Trans-24)	662
TT-64-19597 (ANL-Trans-32)	668
TT-64-19598 (ORNL-tr-32)	669
TT-64-19599 (ORNL-tr-65)	670
TT-64-19600 (ANL-Trans-16)	669
TT-64-19602 (ANL-Trans-27)	672
TT-64-19614 (ORNL-tr-107)	676
TT-64-19617 (ANL-Trans-39)	629
TT-64-19618 (ORNL-tr-108)	676
TT-64-21989	660
TT-64-22431(NRC C-4949)	635
TT-64-22434(NRC C-4926)	632
TT-64-22515(BISI-3696)	664
TT-64-22517 (Voskresenskaya)	618
TT-64-22518(BISI-3717A)	664
TT-64-22519(BISI-3728)	666
TT-64-22520(BISI-3757)	663
TT-64-22588 (SA Code P-309)	657
TT-64-22589 (SA Code P-310)	639
TT-64-22590 (SA Code P-311)	656
TT-64-22591 (SA Code P-312)	625
TT-64-22592 (SA Code P-313)	658
TT-64-22593 (SA Code P-314)	653
TT-64-22594 (SA Code P-315)	653
TT-64-22595 (SA Code P-316)	602
TT-64-22596 (SA Code P-317)	602
TT-64-22597 (SA Code P-318)	690
TT-64-22598 (SA Code P-319)	640
TT-64-22599 (SA Code P-320)	657
TT-64-22605(NRC C-4947)	632
TT-64-22607(NRC C-4942)	616
TT-64-22608(Agranovich)	659
TT-64-22610(ATS-41R77R)	627
TT-64-22678(Anempodistov)	643
TT-64-22679(Kibel')	631
TT-64-22680(Ryabchikov)	619
TT-64-22681(Rubin)	604
TT-64-22682(Lebedev)	673
TT-64-22683(Tikhonov)	660
TT-64-22684 (SA Code P-341)	656
TT-64-22685 (SA Code P-342)	655
TT-64-22686 (SA Code P-343)	656
TT-64-22688 (SA Code P-345)	657
TT-64-22689 (SA Code P-346)	658
TT-64-22690 (SA Code P-347)	658
TT-64-22691 (SA Code P-348)	640
TT-64-22692(TTIS NS 225)	653
TT-64-22693(TTIS NS 226)	636
TT-64-22694(TTIS NS 227)	636
TT-64-22696(TTIS NS 229)	675
TT-64-22697(TTIS NS 230)	657
TT-64-22698(TTIS NS 231)	621
TT-64-22699(TTIS NS 232)	621
TT-64-22700(TTIS NS 233)	655
TT-64-22701 (SA Code P-357)	658
TT-64-22702 (SA Code P-356)	657
TT-64-22703 (SA Code P-355)	656
TT-64-22704 (SA Code P-354)	625
TT-64-22705 (SA Code P-353)	624
TT-64-22706 (SA Code P-352)	622
TT-64-22707 (SA Code P-351)	656
TT-64-22708 (SA Code P-350)	656
TT-64-22709	643
TT-64-22710(Stephen)	619
TT-64-22711(Kesaev)	673
TT-64-22712(Kubilyus)	659
TT-64-22713(Nagiev)	640
TT-64-22714(Romanova)	656
TT-64-22715(Shubnikov)	675
TT-64-22716(Syrkin)	674
TT-64-22718 (SA Code P-321)	655
TT-64-22719 (SA Code P-322)	656
TT-64-22720 (SA Code P-323)	602
TT-64-22721 (SA Code P-324)	627
TT-64-22722 (SA Code P-325)	657

Number	Page
TT-64-22723 (SA Code-P-326)	653
TT-64-22724 (SA Code-P-327)	653
TT-64-22725 (SA Code-P-328)	653
TT-64-22726 (SA Code-P-329)	658
TT-64-22727 (SA Code-P-330)	657
TT-64-22728 (SA Code-P-331)	625
TT-64-22729 (SA Code-P-332)	657
TT-64-22733 (SA Code-P-336)	625
TT-64-22735 (SA Code-P-338)	625
TT-64-22736 (SA Code-P-339)	663
TT-64-22740(Kotz)	682
TT-64-22756(NRC C-4657)	637
TT-64-22766(BISI-3579)	663
TT-64-22767(BISI-3583)	664
TT-64-22768(BISI-3595)	666
TT-64-22769(BISI-3652)	664
TT-64-22770(BISI-3704)	665
TT-64-22772(BISI-3738)	667
TT-64-22773(BISI-3763)	667
TT-64-22774(BISI-3779)	663
TT-64-22775(BISI-3780)	663
TT-64-22776(BISI-3508)	666
TT-64-22777(BISI-3675)	665
TT-64-22778(BISI-3679)	666
TT-64-22779(BISI-3689)	665
TT-64-22780(BISI-3723)	663
TT-64-22781(BISI-3742)	666
TT-64-22783(BISI-3755)	665
TT-64-22784(BISI-3784)	660
TT-64-22785(BISI-3785)	660
TT-64-22786(BISI-3792)	664
TT-64-22796(BISI-3743)	665
TT-64-22808(HB-6288)	664
TT-64-22810(HB-6277)	664
TT-64-22811(HB-6279)	664
TT-64-22813(HB-6237)	666
TT-64-22814(HB-6236)	663
TT-64-22815(HB-6263)	664
TT-64-22821(HB-5797)	663
TT-64-22822(HB-6199)	666
TT-64-22830(HB-6226)	664
TT-64-22831(HB-6124)	665
TT-64-25047 (SA Code-P-349)	656
TT-64-31091	616
TT-64-31104	604
TT-64-31154	663
TT-64-31156	607
TT-64-31162	604
TT-64-31167	676
TT-64-31177	605
TT-64-31235	660
TT-64-31276 rev.	672
TT-64-31318	604
TT-64-31319	604
TT-64-31407	677
TT-64-31451	676
TT-64-31451 (p. 1-15)	635
TT-64-31451 (p. 16-18)	632
TT-64-31451 (p. 19-28)	643
TT-64-31451 (p. 29-30)	661
TT-64-31475	677
TT-64-31475 (p. 6-10)	625
TT-64-31475 (p. 11-18)	619
TT-64-31475 (p. 19-25)	619
TT-64-31495	641
TT-64-31504	634
TT-64-31526	601
TT-64-31528	646
TT-64-31535	677
TT-64-31535 (p. 1-12)	623
TT-64-31535 (p. 13-21)	625
TT-64-31545	671
TT-64-31563	677
TT-64-31592	680
TT-64-31594	679
TT-64-31596	679
TT-64-31597	665
TT-64-31598	606
TT-64-31599	618
TT-64-31605	606
TT-64-31607	679
TT-64-31608	678
TT-64-31609	671
TT-64-31610	606
TT-64-31610 (p. 1-15)	610
TT-64-31610 (p. 16-24)	610
TT-64-31610 (p. 25-30)	613
TT-64-31610 (p. 31-44)	678
TT-64-31611	614
TT-64-31613	610
TT-64-31614	638
TT-64-31616	601
TT-64-31617	672
TT-64-31618	601
TT-64-31619	681
TT-64-31621	603
TT-64-31622	632
TT-64-31623	617
TT-64-31624	647
TT-64-31625	605
TT-64-31626	611
TT-64-31627	611
TT-64-31628	679
TT-64-31630	616
TT-64-31633	661
TT-64-31637	607
TT-64-31638	637
TT-64-31639	661
TT-64-31640	618
TT-64-31643	680
TT-64-31647	679
TT-64-31649	681
TT-64-31651	613
TT-64-31661	613
TT-64-31662	637
TT-64-31663	679
TT-64-31664	664
TT-64-31666	679
TT-64-31667	679
TT-64-31669	679
TT-64-31670	681
TT-64-31671	631
TT-64-31672	605
TT-64-31673	602
TT-64-31674	679
TT-64-31675	611
TT-64-31676	606
TT-64-31677	618
TT-64-31680	641
TT-64-31683	678
TT-64-31685	681
TT-64-31686	679
TT-64-31687	607
TT-64-31688	679
TT-64-31689	679
TT-64-31691	679
TT-64-31695	671
TT-64-31696	645
TT-64-31698	680
TT-64-31699	638
TT-64-31700	605
TT-64-31703	606
TT-64-31704	605
TT-64-31705	681
TT-64-31707	662
TT-64-31715	618
TT-64-31730	681
TT-64-31742	645
TT-64-31742 (p. 13-16) (Shevlyakov)	646
TT-64-31749	612
TT-64-31754	647
TT-64-31755	680
TT-64-31762	647
TT-64-31763	639
TT-64-31764	606
TT-64-31766	677
TT-64-31774	617
TT-64-31777	616
TT-64-31781	631
TT-64-31788	666
TT-64-31792	642
TT-64-31793	667
TT-64-31795	678
TT-64-31796	663
TT-64-31797	677
TT-64-31798	612
TT-64-31802	628
TT-64-31804	638
TT-64-31805	611
TT-64-31812	641
TT-64-31813	618
TT-64-31814	601
TT-64-31815	671
TT-64-31816	615
TT-64-31817	605
TT-64-31819	665
TT-64-31826	677
TT-64-31829	630
TT-64-31830	666
TT-64-31831	607
TT-64-31834	678
TT-64-31837	611
TT-64-31839	672
TT-64-31845	677
TT-64-31846	649
TT-64-31847	644
TT-64-31862	606
TT-64-31865	608
TT-64-31866	608
TT-64-31867	680
TT-64-31868	671
TT-64-31869	618
TT-64-31871	608
TT-64-31872	607
TT-64-31873	607
TT-64-31874	677
TT-64-31876	682
TT-64-31878	665
TT-64-31880	606
TT-64-31883	646
TT-64-31885	666
TT-64-31900	665
TT-64-31902	617
TT-64-31904	680
TT-64-31905	617
TT-64-31907	615
TT-64-31908	660
TT-64-31909	660
TT-64-31912	606
TT-64-31913	604
TT-64-31918	665
TT-64-31922	614
TT-64-31923	607
TT-64-31931	638
TT-64-31934	666
TT-64-31937	614
TT-64-31939	610
TT-64-31947	680
TT-64-31949	609
TT-64-31953	665
TT-64-31954	645
TT-64-31955	606
TT-64-31958	615
TT-64-31960	604
TT-64-31961	645
TT-64-31962	671
TT-64-31964	668
TT-64-31966	630
TT-64-31970	606
TT-64-31977	605
TT-64-31979	601
TT-64-31980	612
TT-64-31985	618
TT-64-31986	678
TT-64-31994	602
TT-64-41000	637
TT-64-41004	622
TT-64-41022	677
TT-64-41031	680
TT-64-41034	682
TT-64-41040	677
TT-64-41058	681
TT-64-41061	639
TT-64-41064	617
TT-64-41067	614
TT-64-41076	607
TT-64-41078	646
TT-64-41079	606
TT-64-41080	604
TT-64-41081	607
TT-64-41082	673
TT-64-41085	678
TT-64-41086	617
TT-64-41090	677
TT-64-41090 (p. 1-23)	611
TT-64-41090 (p. 48-50)	616
TT-64-41090 (p. 61-64)	613
TT-64-41090 (p. 65-75)	603
TT-64-41093	680
TT-64-41098	603
TT-64-41099	645
TT-64-41099 (p. 1-11)	646
TT-64-41102	645
TT-64-41103	647
TT-64-41104	601
TT-64-41104 (p. 1-2)	602
TT-64-41104 (p. 3-5)	602
TT-64-41104 (p. 6-7)	602
TT-64-41104 (p. 8-9)	602
TT-64-41105	642
TT-64-41119	618
TT-64-41124	678
TT-64-41133	671
TT-64-41134	672
TT-64-41135	677
TT-64-41138	667
TT-64-41139	640
TT-64-41144	614
TT-64-41149	665
TT-64-41154	681
TT-64-41156	646
TT-64-41168	611
TT-64-41178	638
TT-64-41179	645
TT-64-41180	659
TT-64-41181	618
TT-64-41182	606
TT-64-41183	673
TT-64-41185	666
TT-64-41187	602
TT-64-41200	607
TT-64-41207	644
TT-64-41217	613
TT-64-41227	602
TT-64-41234	668
TT-64-41236	645
TT-64-41241	618
TT-64-41244	647
TT-64-41246	607
TT-64-41255	601
TT-64-41259	630
TT-64-41275	680
TT-64-41279	607
TT-64-41285	607
TT-64-41286	617
TT-64-41291	617
TT-64-41292	680
TT-64-71119	641
TT-64-71120	642
TT-64-71121	638
TT-64-71130	661
TT-64-71132	642
TT-64-71133	617
TT-64-71134	642
TT-64-71137	673
TT-64-71138	667
TT-64-71139	642
TT-64-71140	619
TT-64-71141	616
TT-64-71145	662
TT-64-71147	605
TT-64-71148	653
TT-64-71149	608
TT-64-71150	608
TT-64-71151	638
TT-64-71152	642
TT-64-71153	631
TT-64-71157	643
TT-64-71159	680
TT-64-71160	660
TT-64-71161	630
TT-64-71194	678
TT-64-71231	605
TT-64-71232	674
TT-64-71233	674
TT-64-71234	641
TT-64-71237	642
TT-64-71239	659
TT-64-71240	661
TT-64-71241	680
TT-64-71242	659
TT-64-71243	660
TT-64-71244	644
TT-64-71245	671
TT-64-71246	671
TT-64-71247	670
TT-64-71250	670
TT-64-71251	638
TT-64-71252	637
TT-64-71253	670
TT-64-71254	669
TT-64-71255	670
TT-64-71256	670
TT-64-71257	669
TT-64-71258	644
TT-64-71259	659
TT-64-71260	644
TT-64-71261	644
TT-64-71262	644
TT-64-71263	669

Number	Page	Number	Page	Number	Page	Number	Page
TT-64-71264	660	TT-64-71271	669	TT-64-71279	644	TTIS NS 227	636
TT-64-71265	662	TT-64-71272	671	TT-64-71280	605	TTIS NS 229	675
TT-64-71266	681	TT-64-71274	670	TT-64-71281	678	TTIS NS 230	667
TT-64-71267	669	TT-64-71275	670	TT-64-71282	638	TTIS NS 231	632
TT-64-71268	681	TT-64-71276	668	TT-64-71283	662	TTIS NS 232	632
TT-64-71269	680	TT-64-71277	662	TTIS NS 225	653	TTIS NS 233	665
TT-64-71270	681	TT-64-71278	679	TTIS NS 226	636	UCRL-trans-735 (L)	660

Number	Page
TT-64-18325	648
TT-64-18328	649
TT-64-18330	649
TT-64-18333	629
TT-64-18337	650
TT-64-18340	650
TT-64-18343	664
TT-64-18345	672
TT-64-18346	653
TT-64-18347	669
TT-64-18351	659
TT-64-18353	667
TT-64-18354	609
TT-64-18355	663
TT-64-18357	638
TT-64-18362	640
TT-64-18369	651
TT-64-18372	619
TT-64-18376	624
TT-64-18400	666
TT-64-18401	651
TT-64-18409	651
TT-64-18410	622
TT-64-18412	627
TT-64-18413	616
TT-64-18417	627
TT-64-18418	642
TT-64-18419	661
TT-64-18422	661
TT-64-18423	661
TT-64-18425	661
TT-64-18426	661
TT-64-18435	622
TT-64-18438	625
TT-64-18439	625
TT-64-18441	625
TT-64-18443	623
TT-64-18444	623
TT-64-18447	653
TT-64--8448	652
TT-64-18449	652
TT-64-18450	652
TT-64-18451	652
TT-64-18452	657
TT-64-18453	650
TT-64-18454	652
TT-64-18455	652
TT-64-18456	621
TT-64-18457	621
TT-64-18458	638
TT-64-18459	621
TT-64-18460	621
TT-64-18461	621
TT-64-18462	645
TT-64-18463	621
TT-64-18464	651
TT-64-18465	655
TT-64-18466	609
TT-64-18467	608
TT-64-18468	608
TT-64-18469	608
TT-64-18470	608
TT-64-18472	624
TT-64-18473	623
TT-64-18474	603
TT-64-18479	622
TT-64-18481	621
TT-64-18483	626
TT-64-18484	625
TT-64-18486	620
TT-64-18489	620
TT-64-18490	620
TT-64-18492	658
TT-64-18500	665
TT-64-18501	674
TT-64-18502	674
TT-64-18505	622
TT-64-18506	641
TT-64-18507	641
TT-64-18508	623
TT-64-18510	622
TT-64-18514	619
TT-64-18515	629
TT-64-18522	667
TT-64-18524	667
TT-64-18527	673
TT-64-18528	654
TT-64-18529	654
TT-64-18530	654
TT-64-18531	654
TT-64-18532	613
TT-64-18533	654
TT-64-18534	654
TT-64-18535	654
TT-64-18536	654
TT-64-18537	678
TT-64-18538	654
TT-64-18542	654
TT-64-18543	654
TT-64-18544	619
TT-64-18545	624
TT-64-18549	675
TT-64-18550	619
TT-64-18576	625
TT-64-18577	623
TT-64-18579	627
TT-64-18591	621
TT-64-18605	676
TT-64-18624	610
TT-64-18633	613
TT-64-18635	614
TT-64-18734	612
TT-64-18736	615
TT-64-18738	616
TT-64-18739	611
TT-64-18740	612
TT-64-18766	626
TT-64-18767	640
TT-64-18769	627
TT-64-18770	640
TT-64-18776	628
TT-64-18777	623
TT-64-18792	674
TT-64-18793	626
TT-64-18794	624
TT-64-18795	623
TT-64-18796	640
TT-64-18800	639
TT-64-18802	624
TT-64-18803	656
TT-64-18804	622
TT-64-18805	623
TT-64-18806	620
TT-64-18807	624
TT-64-18813	626
TT-64-18814	627
TT-64-18816	641
TT-64-18817	640
TT-64-18818	635
TT-64-18819	641
TT-64-18820	615
TT-64-18821	621
TT-64-18826	609
TT-64-18827	609
TT-64-18828	610
TT-64-18829	609
TT-64-18830	609
TT-64-18832	610
TT-64-18834	609
TT-64-18835	609
TT-64-18840	652
TT-64-18843	628
TT-64-18847	639
TT-64-18848	652
TT-64-18849	651
TT-64-18850	627
TT-64-18851	624
TT-64-18853	620
TT-64-18855	639
TT-64-18856	626
TT-64-18857	622
TT-64-18861	667
TT-64-18870	648
TT-64-18872	639
TT-64-18873	655
TT-64-18875	652
TT-64-18876	609
TT-64-18879	653
TT-64-18880	610
TT-64-18881	604
TT-64-18882	663
TT-64-18883	657
TT-64-18885	626
TT-64-18886	624
TT-64-18887	655
TT-64-18888	657
TT-64-18891	652
TT-64-18892	639
TT-64-18893	664
TT-64-18899	628
TT-64-19304(HW-TR-57)	668
TT-64-19306	668
TT-64-19307	669
TT-64-19308	668
TT-64-19309	672
TT-64-19314 (UCRL-trans-735(L))	668
TT-64-19316 (AEC-tr-6074)	629
TT-64-19317(SC-T-513)	658
TT-64-19318 (AEC-tr-5758)	667
TT-64-19322 (AEC-tr-6367)	674
TT-64-19327 (AEC-tr-6277)	668
TT-64-19330 (AEC-tr-6118)	671
TT-64-19331 (AEC-tr-6117)	671
TT-64-19332 (AEC-tr-6115)	650
TT-64-19340	643
TT-64-19341	631
TT-64-19342	672
TT-64-19343	616
TT-64-19344	615
TT-64-19345	613
TT-64-19346	659
TT-64-19348 (SOVIET)	645
TT-64-19352	643
TT-64-19353	628
TT-64-19355	643
TT-64-19356	676
TT-64-19360	636
TT-64-19363	603
TT-64-19364	603
TT-64-19365	603
TT-64-19366	603
TT-64-19367	603
TT-64-19368	643
TT-64-19369	633
TT-64-19370	602
TT-64-19371	603
TT-64-19378	603
TT-64-19379	628
TT-64-19381	645
TT-64-19382	640
TT-64-19388	676
TT-64-19390	667
TT-64-19567 (AEC-tr-6112)	617
TT-64-19575 (AEC-tr-6411)	667
TT-64-19576 (AEC-tr-6400)	643
TT-64-19577 (AEC-tr-6401)	676
TT-64-19579 (AEC-tr-6402)	676
TT-64-19580 (ANL-Trans-25)	669
TT-64-19584 (AEC-tr-6414)	676
TT-64-19586 (AEC-tr-6403)	676
TT-64-19587 (AEC-tr-3874)	669
TT-64-19588 (ANL-Trans-9)	670
TT-64-19591 (ORNL-tr-79)	668
TT-64-19594 (ANL-Trans-12)	637
TT-64-19596 (ANL-Trans-24)	662
TT-64-19597 (ANL-Trans-32)	668
TT-64-19598 (ORNL-tr-32)	669
TT-64-19599 (ORNL-tr-65)	670
TT-64-19600 (ANL-Trans-16)	669
TT-64-19602 (ANL-Trans-27)	672
TT-64-19614 (ORNL-tr-107)	676
TT-64-19617 (ANL-Trans-39)	629
TT-64-19618 (ORNL-tr-108)	676
TT-64-21989	660
TT-64-22431(NRC C-4949)	635
TT-64-22434(NRC C-4926)	632
TT-64-22515(BISI-3696)	664
TT-64-22517 (Voskresenskaya)	618
TT-64-22518(BISI-3717A)	664
TT-64-22519(BISI-3728)	666
TT-64-22520(BISI-3757)	663
TT-64-22588 (SA Code P-309)	657
TT-64-22589 (SA Code P-310)	639
TT-64-22590 (SA Code P-311)	656
TT-64-22591 (SA Code P-312)	625
TT-64-22592 (SA Code P-313)	658
TT-64-22593 (SA Code P-314)	653
TT-64-22594 (SA Code P-315)	653
TT-64-22595 (SA Code P-316)	602
TT-64-22596 (SA Code P-317)	602
TT-64-22597 (SA Code P-318)	690
TT-64-22598 (SA Code P-319)	640
TT-64-22599 (SA Code P-320)	657
TT-64-22605(NRC C-4947)	632
TT-64-22607(NRC C-4942)	616
TT-64-22608(Agranovich)	659
TT-64-22610(ATS-41R77R)	637
TT-64-22678(Anempodistov)	643
TT-64-22679(Kibel')	631
TT-64-22680(Ryabchikov)	619
TT-64-22681(Rubin)	604
TT-64-22682(Lebedev)	673
TT-64-22683(Tikhonov)	660
TT-64-22684 (SA Code P-341)	656
TT-64-22685 (SA Code P-342)	655
TT-64-22686 (SA Code P-343)	656
TT-64-22688 (SA Code P-345)	657
TT-64-22689 (SA Code P-346)	658
TT-64-22690 (SA Code P-347)	658
TT-64-22691 (SA Code P-348)	640
TT-64-22692(TTIS NS 225)	653
TT-64-22693(TTIS NS 226)	636
TT-64-22694(TTIS NS 227)	636
TT-64-22696(TTIS NS 229)	675
TT-64-22697(TTIS NS 230)	657
TT-64-22698(TTIS NS 231)	621
TT-64-22699(TTIS NS 232)	621
TT-64-22700(TTIS NS 233)	655
TT-64-22701 (SA Code P-357)	658
TT-64-22702 (SA Code P-356)	657
TT-64-22703 (SA Code P-355)	656
TT-64-22704 (SA Code P-354)	625
TT-64-22705 (SA Code P-353)	624
TT-64-22706 (SA Code P-352)	622
TT-64-22707 (SA Code P-351)	656
TT-64-22708 (SA Code P-350)	656
TT-64-22709	643
TT-64-22710(Stephen)	619
TT-64-22711(Kesaev)	673
TT-64-22712(Kubilyus)	659
TT-64-22713(Nagiev)	640
TT-64-22714(Romanova)	636
TT-64-22715(Shubnikov)	675
TT-64-22716(Syrkin)	674
TT-64-22718 (SA Code P-321)	655
TT-64-22719 (SA Code P-322)	656
TT-64-22720 (SA Code P-323)	602
TT-64-22721 (SA Code P-324)	627
TT-64-22722 (SA Code P-325)	657

Number	Page
TT-64-22723	
(SA Code-P-326)	653
TT-64-22724	
(SA Code-P-327)	653
TT-64-22725	
(SA Code-P-328)	653
TT-64-22726	
(SA Code-P-329)	658
TT-64-22727	
(SA Code-P-330)	657
TT-64-22728	
(SA Code-P-331)	625
TT-64-22729	
(SA Code-P-332)	657
TT-64-22733	
(SA Code-P-336)	625
TT-64-22735	
(SA Code-P-338)	625
TT-64-22736	
(SA Code-P-339)	663
TT-64-22740(Kotz)	682
TT-64-22756(NRC C-4657)	637
TT-64-22766(BISI-3579)	663
TT-64-22767(BISI-3583)	664
TT-64-22768(BISI-3595)	666
TT-64-22769(BISI-3652)	664
TT-64-22770(BISI-3704)	665
TT-64-22772(BISI-3738)	667
TT-64-22773(BISI-3763)	667
TT-64-22774(BISI-3779)	663
TT-64-22775(BISI-3780)	663
TT-64-22776(BISI-3508)	666
TT-64-22777(BISI-3675)	665
TT-64-22778(BISI-3679)	666
TT-64-22779(BISI-3689)	665
TT-64-22780(BISI-3723)	663
TT-64-22781(BISI-3742)	666
TT-64-22783(BISI-3755)	665
TT-64-22784(BISI-3784)	660
TT-64-22785(BISI-3785)	660
TT-64-22786(BISI-3792)	664
TT-64-22796(BISI-3743)	665
TT-64-22808(HB-6288)	664
TT-64-22810(HB-6277)	664
TT-64-22811(HB-6279)	664
TT-64-22813(HB-6237)	666
TT-64-22814(HB-6236)	663
TT-64-22815(HB-6263)	664
TT-64-22821(HB-5797)	663
TT-64-22822(HB-6199)	666
TT-64-22830(HB-6226)	664
TT-64-22831(HB-6124)	665
TT-64-25047	
(SA Code-P-349)	656
TT-64-31091	616
TT-64-31104	604
TT-64-31154	663
TT-64-31156	607
TT-64-31162	604
TT-64-31167	676
TT-64-31177	605
TT-64-31235	660
TT-64-31276 rev.	672
TT-64-31318	604
TT-64-31319	604
TT-64-31407	677
TT-64-31451	676
TT-64-31451 (p. 1-15)	635
TT-64-31451 (p. 16-18)	632
TT-64-31451 (p. 19-28)	643
TT-64-31451 (p. 29-30)	661
TT-64-31475	677
TT-64-31475 (p. 6-10)	625
TT-64-31475 (p. 11-18)	619
TT-64-31475 (p. 19-25)	619
TT-64-31495	641
TT-64-31504	634
TT-64-31526	601
TT-64-31528	646
TT-64-31535	677
TT-64-31535 (p. 1-12)	623
TT-64-31535 (p. 13-21)	625
TT-64-31545	671
TT-64-31563	677
TT-64-31592	680
TT-64-31594	679
TT-64-31596	679
TT-64-31597	665
TT-64-31598	606
TT-64-31599	618
TT-64-31605	606
TT-64-31607	679
TT-64-31608	678
TT-64-31609	671
TT-64-31610	606
TT-64-31610 (p. 1-15)	610
TT-64-31610 (p. 16-24)	610
TT-64-31610 (p. 25-30)	613
TT-64-31610 (p. 31-44)	678
TT-64-31611	614
TT-64-31613	610
TT-64-31614	638
TT-64-31616	601
TT-64-31617	672
TT-64-31618	601
TT-64-31619	681
TT-64-31621	603
TT-64-31622	632
TT-64-31623	617
TT-64-31624	647
TT-64-31625	605
TT-64-31626	611
TT-64-31627	611
TT-64-31628	679
TT-64-31630	616
TT-64-31633	661
TT-64-31637	607
TT-64-31638	637
TT-64-31639	661
TT-64-31640	618
TT-64-31643	680
TT-64-31647	679
TT-64-31649	681
TT-64-31651	613
TT-64-31661	613
TT-64-31662	637
TT-64-31663	679
TT-64-31664	664
TT-64-31666	679
TT-64-31667	679
TT-64-31669	679
TT-64-31670	681
TT-64-31671	631
TT-64-31672	605
TT-64-31673	602
TT-64-31674	679
TT-64-31675	611
TT-64-31676	606
TT-64-31677	618
TT-64-31680	641
TT-64-31683	678
TT-64-31685	681
TT-64-31686	679
TT-64-31687	607
TT-64-31688	679
TT-64-31689	679
TT-64-31691	679
TT-64-31695	671
TT-64-31696	645
TT-64-31698	680
TT-64-31699	638
TT-64-31700	605
TT-64-31703	606
TT-64-31704	605
TT-64-31705	681
TT-64-31707	662
TT-64-31715	618
TT-64-31730	681
TT-64-31742	645
TT-64-31742 (p. 13-16) (Shevlyakov)	646
TT-64-31749	612
TT-64-31754	647
TT-64-31755	680
TT-64-31762	647
TT-64-31763	639
TT-64-31764	606
TT-64-31766	677
TT-64-31774	617
TT-64-31777	616
TT-64-31781	631
TT-64-31788	666
TT-64-31792	642
TT-64-31793	667
TT-64-31795	678
TT-64-31796	663
TT-64-31797	677
TT-64-31798	612
TT-64-31802	628
TT-64-31804	638
TT-64-31805	611
TT-64-31812	641
TT-64-31813	618
TT-64-31814	601
TT-64-31815	671
TT-64-31816	615
TT-64-31817	605
TT-64-31819	665
TT-64-31826	677
TT-64-31829	630
TT-64-31830	666
TT-64-31831	607
TT-64-31834	678
TT-64-31837	611
TT-64-31839	672
TT-64-31845	677
TT-64-31846	649
TT-64-31847	644
TT-64-31862	606
TT-64-31865	608
TT-64-31866	608
TT-64-31867	680
TT-64-31868	671
TT-64-31869	618
TT-64-31871	608
TT-64-31872	607
TT-64-31873	607
TT-64-31874	677
TT-64-31876	682
TT-64-31878	665
TT-64-31880	606
TT-64-31883	646
TT-64-31885	666
TT-64-31900	665
TT-64-31902	617
TT-64-31904	680
TT-64-31905	617
TT-64-31907	615
TT-64-31908	660
TT-64-31909	660
TT-64-31912	606
TT-64-31913	604
TT-64-31918	665
TT-64-31922	614
TT-64-31923	607
TT-64-31931	638
TT-64-31934	666
TT-64-31937	614
TT-64-31939	610
TT-64-31947	680
TT-64-31949	609
TT-64-31953	665
TT-64-31954	645
TT-64-31955	606
TT-64-31958	615
TT-64-31960	604
TT-64-31961	645
TT-64-31962	671
TT-64-31964	668
TT-64-31966	630
TT-64-31970	606
TT-64-31977	605
TT-64-31979	601
TT-64-31980	612
TT-64-31985	618
TT-64-31986	678
TT-64-31994	602
TT-64-41000	637
TT-64-41004	622
TT-64-41022	677
TT-64-41031	680
TT-64-41034	682
TT-64-41040	677
TT-64-41058	681
TT-64-41061	639
TT-64-41064	617
TT-64-41067	614
TT-64-41076	607
TT-64-41078	646
TT-64-41079	606
TT-64-41080	604
TT-64-41081	607
TT-64-41082	673
TT-64-41085	678
TT-64-41086	617
TT-64-41090	677
TT-64-41090 (p. 1-23)	611
TT-64-41090 (p. 48-50)	616
TT-64-41090 (p. 61-64)	613
TT-64-41090 (p. 65-75)	603
TT-64-41093	680
TT-64-41098	603
TT-64-41099	645
TT-64-41099 (p. 1-11)	646
TT-64-41102	645
TT-64-41103	647
TT-64-41104	601
TT-64-41104 (p. 1-2)	602
TT-64-41104 (p. 3-5)	602
TT-64-41104 (p. 6-7)	602
TT-64-41104 (p. 8-9)	602
TT-64-41105	642
TT-64-41119	618
TT-64-41124	678
TT-64-41133	671
TT-64-41134	672
TT-64-41135	677
TT-64-41138	667
TT-64-41139	640
TT-64-41144	614
TT-64-41149	665
TT-64-41154	681
TT-64-41156	646
TT-64-41168	611
TT-64-41178	638
TT-64-41179	645
TT-64-41180	659
TT-64-41181	618
TT-64-41182	606
TT-64-41183	673
TT-64-41186	666
TT-64-41187	602
TT-64-41200	607
TT-64-41207	644
TT-64-41217	613
TT-64-41227	602
TT-64-41234	668
TT-64-41236	645
TT-64-41241	618
TT-64-41244	647
TT-64-41246	607
TT-64-41255	601
TT-64-41259	630
TT-64-41275	680
TT-64-41279	607
TT-64-41285	607
TT-64-41286	617
TT-64-41291	617
TT-64-41292	680
TT-64-71119	641
TT-64-71120	642
TT-64-71121	638
TT-64-71130	661
TT-64-71132	642
TT-64-71133	617
TT-64-71134	642
TT-64-71137	673
TT-64-71138	667
TT-64-71139	642
TT-64-71140	619
TT-64-71141	616
TT-64-71146	662
TT-64-71147	605
TT-64-71148	653
TT-64-71149	608
TT-64-71150	608
TT-64-71151	638
TT-64-71152	642
TT-64-71153	631
TT-64-71157	643
TT-64-71159	680
TT-64-71160	660
TT-64-71161	630
TT-64-71194	678
TT-64-71231	605
TT-64-71232	674
TT-64-71233	674
TT-64-71234	641
TT-64-71237	642
TT-64-71239	659
TT-64-71240	661
TT-64-71241	680
TT-64-71242	659
TT-64-71243	660
TT-64-71244	644
TT-64-71245	671
TT-64-71246	671
TT-64-71247	670
TT-64-71250	670
TT-64-71251	638
TT-64-71252	637
TT-64-71253	670
TT-64-71254	669
TT-64-71255	670
TT-64-71256	670
TT-64-71257	669
TT-64-71258	644
TT-64-71259	659
TT-64-71260	644
TT-64-71261	644
TT-64-71262	644
TT-64-71263	669

Number	Page	Number	Page	Number	Page	Number	Page
TT-64-71264	660	TT-64-71271	669	TT-64-71279	644	TTIS NS 227	636
TT-64-71265	662	TT-64-71272	671	TT-64-71280	605	TTIS NS 229	675
TT-64-71266	681	TT-64-71274	670	TT-64-71281	678	TTIS NS 230	657
TT-64-71267	669	TT-64-71275	670	TT-64-71282	638	TTIS NS 231	621
TT-64-71268	681	TT-64-71276	668	TT-64-71283	662	TTIS NS 232	621
TT-64-71269	680	TT-64-71277	662	TTIS NS 225	653	TTIS NS 233	655
TT-64-71270	681	TT-64-71278	679	TTIS NS 226	636	UCRL-trans-735 (L)	668

U.S. DEPARTMENT OF COMMERCE FIELD OFFICES

SERVE THE BUSINESS COMMUNITY

The Department of Commerce maintains Field Offices to enable the business community to avail itself locally of Government facilities designed to promote commerce. Working closely with various units in the Department and, when necessary, with other Government agencies, the Field Offices provide business services to manufacturers, wholesalers, retailers, trade publications, trade associations, advertising agencies, research groups, financial institutions, and exporters and importers.

Experienced personnel will gladly assist in the solution of specific problems, explain the scope and meaning of regulations administered by the Department, and provide practical assistance in the broad field of domestic and foreign commerce. Field Offices act as official sales agents of the Superintendent of Documents, and maintain an extensive business reference library containing periodicals, directories, publications and reports from official as well as private sources.

Among the many services which businessmen have found of value are:

GENERAL

- Management and business aids
- Establishing a new business

BASIC ECONOMIC DATA

- Census data with national and often State and regional breakdowns, on manufacturing wholesaling, retailing, service industries, employment and unemployment, population, housing, agriculture
- Basic records of national income and product, regional trends, balance of payments, foreign aid

MARKETING AND DISTRIBUTION

- Development and maintenance of markets
- Distribution channels, facilities and services
- Marketing and distribution statistics

PRODUCTION

- Modernization of plant processes and other technological aids
- Development of new products
- Government-owned patents for free license
- Commodity standards

FOREIGN TRADE AND INVESTMENT

- Tariff and exchange regulations
- Import and export quotas, licensing regulations
- Statistics on imports and exports
- Investment and trade opportunities abroad
- Economic conditions in foreign countries

COOPERATIVE OFFICES

To make the services of the Department of Commerce more widely available, agreements have been entered into with more than 750 Chambers of Commerce, Manufacturers Associations, and similar business groups under which these organizations have become official Cooperative Offices of the Department. If specific information is not on hand in the Cooperative Office, your problem will be referred to the nearest Departmental field office.

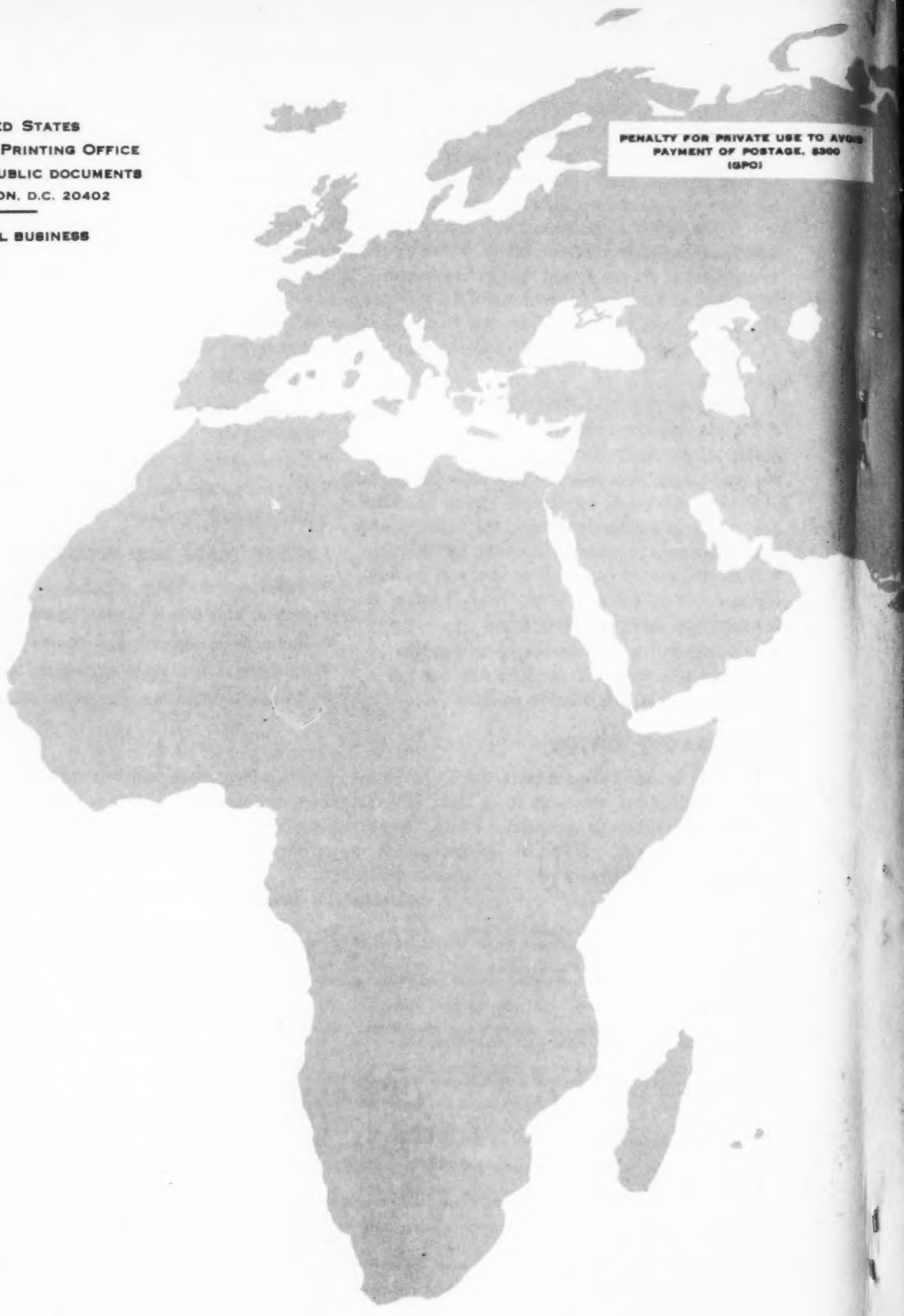
Department Field Offices

Albuquerque, N. Mex., 87101, U.S. Courthouse. 247-0311.
Anchorage, Alaska, 99501, Room 306, Loussac-Sogn Building. Phone: BR 2-9611.
Atlanta, Ga., 30303, 75 Forsyth St., N.W. JAckson 2-4121.
Baltimore, Md., 21202, 305 U.S. Customhouse, Gay and Lombard Streets. Phone: PLaza 2-8460.
Birmingham, Ala., 35203, Title Bldg., 2030 Third Ave., North. Phone: 325-3131.
Boston, Mass., 02110, Room 230, 80 Federal Street. CApitol 3-2312.
Buffalo, N.Y., 14203, 504 Federal Building, 117 Ellicott Street. Phone: 842-3208.
Charleston, S.C., 29401, No. 4, North Atlantic Wharf. Phone: 722-6551.
Charleston, W. Va., 25301, 3002 New Federal Office Building, 500 Quarrier Street. Phone: 343-6196.
Cheyenne, Wyo., 82001, 207 Majestic Bldg., 16th & Capitol Ave. Phone: 634-5920.
Chicago, Ill., 60606, Room 1302, 226 West Jackson Blvd. 828-4400.
Cincinnati, Ohio, 45202, 8028 Federal Office Building, 550 Main Street. Phone: 381-2200.
Cleveland, Ohio, 44101, 4th Floor, Federal Reserve Bank Bldg., East 6th St. & Superior Ave. 241-7900.
Dallas, Tex., 75202, Room 1200, 1114 Commerce Street. Riverside 9-3287.
Denver, Colo., 80202, 142 New Custom House, 19th & Stout Street. Phone: 297-3246.
Des Moines, Iowa, 50309, 1216 Paramount Building, 509 Grand Avenue. Phone: 284-4222.
Detroit, Mich., 48226, 445 Federal Bldg. 226-6088.
Greensboro, N.C., 27402, Room 407, U.S. Post Office Building. 273-8234.
Hartford, Conn., 06103, 18 Asylum St. Phone: 244-3530.
Honolulu, Hawaii, 96813, 202 International Savings Bldg., 1022 Bethel Street. Phone: 588667.
Houston, Tex., 77002, 5102 Federal Bldg., 515 Rusk Ave. CA 8-0611.
Jacksonville, Fla., 32202, 512 Greenleaf Building, 208 Laura Street. ELgin 4-7111.
Kansas City, Mo., 64106, Room 2011, 911 Walnut Street. BAltimore 1-7000.
Los Angeles, Calif., 90015, Room 450, Western Pacific Building, 1031 S. Broadway. 688-2830.
Memphis, Tenn., 38103, 345 Federal Office Building, 167 N. Main Street. Phone: 534-3214.
Miami, Fla., 33130, 1628 Federal Office Bldg., 51 S.W. First Avenue. Phone: 350-5267.
Milwaukee, Wis., 53203, Straus Bldg., 238 W. Wisconsin Avenue. Phone: BR 2-8600.
Minneapolis, Minn., 55401, Room 304, Federal Bldg., 110 South Fourth Street. Phone: 334-2133.
New Orleans, La., 70130, 1508 Masonic Temple Bldg., 333 St. Charles Avenue. Phone: 527-6546.
New York, N.Y. 10001, 61st Fl., Empire State Bldg., 350 Fifth Avenue. LOngacre 3-3377.
Philadelphia, Pa., 19107, Jefferson Building, 1015 Chestnut Street. WAlnut 3-2400.
Phoenix, Ariz., 85025, New Federal Bldg., 230 N. First Avenue. Phone: 261-3285.
Pittsburgh, Pa., 15222, 1030 Park Bldg., 355 Fifth Avenue. Phone: 644-2850.
Portland, Oreg., 97204, 217 Old U.S. Courthouse, 520 S.W. Morrison Street. 226-3361.
Reno, Nev., 89502, 1479 Wells Avenue. Phone: FA 2-7133.
Richmond, Va., 23240, 2105 Federal Building, 400 North 8th Street. Phone: 649-3611.
St. Louis, Mo., 63103, 2511 Federal Bldg., 1520 Market Street. MAin 2-4243.
Salt Lake City, Utah, 84111, 3235 Federal Building, 125 South State Street. 524-5116.
San Francisco, Calif., 94102, Federal Building, 450 Golden Gate Avenue. Phone: 556-5864.
Santurce, Puerto Rico, 00907, Room 628, 605 Condado Avenue. Phone: 723-4640.
Savannah, Ga., 31402, 235 U.S. Courthouse and Post Office Bldg., 125-29 Bull Street. ADams 2-4755.
Seattle, Wash., 98104, 809 Federal Office Bldg., 909 First Avenue. MUtual 2-3300.

UNITED STATES
GOVERNMENT PRINTING OFFICE
DIVISION OF PUBLIC DOCUMENTS
WASHINGTON, D.C. 20402

OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, $300
(GPO)



TO AVOID
$300